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Development (1946) Department.

Printed

MS SERIES.

G.C. No. 1692

Dated 25-4-46

[Despatch Abstract.]

Industries—Sericulture—Reorganisation of Grainages. Construction of Sub-Grainages at Kamalkanu, Hanthana and Hanwella Road—Expenditure—Approval of D. I. & L. order passed

C.F. 32.

In reply, please quote number, date and short title.

Received ..... Registered 12519D/46

From (Name) A. Khaleeli Esq., I.C.S.,

(Designation) Director of Industries and Commerce

Post Box 432, (Station) Madras.

Telegraphic Address .....

To

The Secretary to Government,
Development Department,
Madras.

No. 207Cons/44 *dated* 21st Jan. 1946.

Sir,

Enclosures .....

.....

.....

Spare Copies .....

SUB: Industries - Sericulture- Reorganisation of Grainages- Detailed plans and estimates for the construction of sub-grainages at Kamakarai, Kunthur and Hanur - Submitted.

REF: G.O. No. Ms. 3309 dated 27-8-'45.

With reference to para 2 of the G.O. cited I submit detailed plans and estimates for the construction of the following buildings for the proposed sub grainages at Kamakarai, Kunthur and Hanur for the sanction of Government.

Name of buildings.	Estimated cost. Kamakarai.	Kunthur.	Hanur.	Total.
1. Main building for sub-grainage.	15,000	14,220	15,270	44,490
2. Quarters for one grainage assistant	6,830	6,500	6,950	20,280
3. Quarters for four operatives. . . .	15,475	14,820	15,775	46,070
4. Quarters for one clerk.	6,730	6,425	6,830	19,985
5. Quarters for one watchman	2,700	2,600	2,740	8,040
6. Lavatory for office.	310	300	320	930
	47,045	44,865	47,885	139,795

In G.O. No. 1226 Ms. Development dated 20th March, 1944 Government were pleased to sanction a sum of Rs. 34,500 for the construction of these buildings vide items B2 and 3 in the annexure to the G.O. This sanction was based on the plinth area rate of Rs. 4/- per square foot for the main buildings and lumpsum provisions for the staff quarters. The detailed estimates now submitted have been prepared on the current Public Works Department rates and type designs furnished by the Public Works Department for quarters for officers on similar scales of pay. The total plinth area of the main building and staff qarters comes to 16243 square feet and the total estimated cost to Rs. 1,39,795 or 1,39,800. This works out to Rs.

P.T.O.

8/10/- per sq. ft.

While requesting revised sanction for the expenditure in connection with the construction of Central grainage at Kollegal, I explained to Government in my letter No. 207 Cons/44 dated 28th June 1945 that the rate of Rs. 4/- per sq. ft. was not at all workable and that the rate of Rs. 8/7/- per s.ft. arrived at was reasonable. The rate of Rs. 8/10/- per sq.ft. now arrived at is practically equal to the rate in the other case and I consider it reasonable under the present conditions. The improvements for grainages suggested by the Sericultural Expert as a result of his recent visit to China have been incorporated in the estimates for the main buildings. All the quarters excepting that for the watchman have been provided with latrines inside the open yards. Hence estimates have been submitted for the construction of latrines for officers alone. No separate latrine has been provided for the watchman's quarters as the watchman can use the open latrine at the office. I request that Government may be pleased to accord revised sanction for the construction of main buildings for the sub - grainages, staff quarters, quarters for watchmen and latrines for offices at Kamakarai, Kunthur and Hanur at a cost not exceeding Rs. 1,39,800.

for Director of Industries & Commerce.

ak 4.2.46.

Encl:- Plans & Estimates. (6)

ESTIMATE DETAILED MEASUREMENT SHEET.

Name of work:- Construction of Sub-Grainage Building for Kuntlur Kanagenai and Manur.

Details of work.	Number.	Measurements in feet. Length.	Breadth.	Depth.	Area or Contents.	Total.
1.	2.	3.	4.	5.	6.	7.
Earth work excavating for foundations etc., in hard soil.						
Main walls all round	1	120-0	4-0	4-0	1920	
Cross walls.	2	9-6	4-0	4-0	304	
Verandah retaining wall all round.	1	185-6	3-0	3-6	1949	
Steps.					33	
						c.ft.
	TOTAL.				4206	or 4250
2. Filling in basement with excavated earth in layers of not more than 6" including watering and consolidation.						
Rooms.	3	13-7½	11-7½	2-8"	1275	
Verandah all round.	1	154-3	6-8¼	2-8"	2759	
						c.ft
	TOTAL.				4034	or 4050
3. Concrete broken stone in lime mortar.						
Main walls all round.	1	120-0	4-0	1-6	720	
Cross walls.	2	9-6	4-0	1-6	114	
Verandah retaining wall all round.	1	185-6	3-0	1-0	557	
						c.ft.
	TOTAL.				1391	or 1400
4. Brick work in lime Mortar in foundations basement and superstructure (with country bricks.)						
Foundations:- 1st. footing. Main walls all round.	1	120-0	2-7	1-3	394	
Cross walls.	2	20-10	2-7½	1-3	71	
Verandah retaining wall all round.	1	185-6	1-10¾	1-3	435	
Foundations 2nd footing Main walls all round.	1	120-0	2-3	1-3	358	
Cross walls.	2	11-3	2-3	1-3	63	
Verandah retaining wall all round.	1	185-6	1-6	1-3	348	
Basement. Main walls all round.	1	120-0	1-10½	3-0	675	
Cross walls.	2	11-7½	1-10½	3-0	131	
Verandah retaining wall all round.	1	185-6	1-1¼	2-8"	857	
Superstructure:- Main walls all round.	1	120-0	1-6	14-0	2655	
Cross walls.	2	22-0	1-6	14-9	551	
Pillers.	22	1-1½	1-1½	6-6"	181	
Dwarf wall all round.	1	146-0	0-9"	3-0	329	
Parapet over Terace.	1	120-0	1-1¼	2-0	270	
String course all round.	1	124-0	1-0	0-6	62	
Extra at parapet.	X				60	
	TOTAL.				7100	

1.	2.	3.	4.	5.	6.	7.
Deduction:- Doors.	6	4-0	1-6	8-3	297	
Ventilatros bi.	8	3-0	1-6	1-6	54	
" small.	~~24~~	2-0	1-6	1-6	108	
Cut stone work over doors and Ventilators					11 5	
					574	
	TOTAL.					
	NET TOTAL.				6526	or 6550 c.ft
5. Cut stone & tiles dressed to size on all faces and fixed in cement mortar 1:3.						
Lintal over doors.	6	5-6	1-6	0-6	24.75	
Ventilators big.	8	4-6	1-6	0-6	27.00	
" small	~~24~~	3-6	1-6	0-6	63.00	
Base stone over pillars.	22	1-1½	1-1½	0-6	13.92	
					~~97.17~~ 128.67	or ~~98~~ 130 c.
6. Cut stone corbals. (1-6" x 0-9" x 0-4")	22		Total.		22	22 no
7. Contry wood doors framed and planked etc with ventilator at top. 4' x 8-3".	6		Total.		6	6 nos.
8. Country wood swing ventilators big. 3-0 x 1-6"	8		Total.		8	8 nos.
9. -Do. 2-0" x 1-6	24				24.	24 nos.
0. Country wood wrought and put up.						
Bressummer over Verandah pillars.	1	176-0	0-3"	0-5"	18.3	
Wall purlin all round.	1	129-0	0-2½	0-4	9.0	
Hip rafters.	4	14-0	0-2½	0-5	4.9	
Valley rafters.	4	12-0	0-2½	0-5	4.2	
Ridge at portico.	2	9-9	0-2½	0-5	1.7	
Common rafters at Verandha.	56	10-6	0-2	0-5	40.8	
Jack rafters.	3 x 8	10+2-6	0-2	0-5	10.8	
Do.	2 x4	4-9	0-2	0-5	2.7	
Portico rafters front and rear.	2 x 2	7-0	0-2	0-5	1.9	
Do. Collers.	2	5-6	0-2	0-5	0-8	
Do. Jack rafters.	4 x 3	4-8	0-2	0-5	3.9	
Fish Plates	2-x 4	1-3	0-5	0-1½	1.8	
Add forjoints.					2.5	
	Total -				103.3	or 104 c.
1. Reinforced concrete roofing 5½" thick and 2 courses of flat tiles to top over rooms.	1	46-6	13-6		628	or 628 sq
2. Roofing with mangalore tiles on country wood reepers 2" x 1".						
Over Verandha front and rear.	2	$\frac{48 + 66-6}{2}$		0-6	1202	
Do. sides.	2	$\frac{15 + 33-6}{2}$		0-6	509	
	Total.				1711	or 175

P.T.O.

1.	2.	3.	4.	5.	6.	7.

13. Flooring with 4" lime concrete and plastered over with cement mortar 1:3 ½" thick.

Rooms.	3.	13-7½	11-7½		464
Verandah all round.	1	154-3			1027
					1491 s.ft
		Total.			1491 or 1500

14. Plastering with cement mortar 1:5 ½" thick.

Rooms inside	3	52-0		14-9	2301
Outside walls all round.	1	126-0		15-6	1953
Pillers at verandah.	22	4-6		7-0	693
Dwarf wall	1	146-0	6-8		986
Parapet over terace.	1	123-0	5-1½		630
Extra for projection of string courses.	1	128-0	1-0		128
Doors - sides and tops.	6	20-6	1-2		144
Ventilators big - allround	8	9-0	1-3		90
Do. small -do-	24	7-0	1-3		210
Extra for pillars at parapet.					65
		Total.			~~6998~~ 7200 or 7200 s.ft
Deductions:- Doors.	2 x 6	4-0		8-3	396
Ventilators big.	2 x 8	3-0		1-6	72
" small.	2 x 24	2-0		1-6	144
Portion of walls at pillers.	40	0-9		3-0	90
		Total.			~~680~~ 702
		Nett total.			6498 or 6500 s.ft

15. Plastering with cement mortar 1:3 ½" thick.

Damp proof course					
On wall walls all round.	1	120-0	1-10½		225
Cross walls	2	11-7½	1-10½		44
Basement all round.	1	190-0		2-8	507
		Total.			776 or 800 s.ft

16. Painting new wood work 2 coats.

Doors.	6 x 2¼	4-0		8-3	446
Ventilators big.	8 x 2¼	3-0		1-6	81
" small	24 x 2¼	2-0		1-6	162
Breesumer over verandha.pillers.	1	176-0	1-1		191
Wall purlin	1	120-6	0-6½		66
Ridge at protico.	1	9-3	1-0½		9
Hip rafters.	4	14-0	1-0½		58
Valley rafters	2 x 2	12-0	1-0½		50
Common rafters at Verandah.	56	10-6	1-0		588
Do. Jack rafters.	3 x 8	6-6	1-0		156
Do.	2 x 4	4-9	1-0		38
Rafters at portico.	2 x 2	7-0	1-0		28
Collers.	2	5-6	1-2		13
Jack rafters.	4 x 3	4-9	1-0		57
Reepers front and rear.	2 x 10	$\frac{48 + 66.3}{2}$	0-4		380
sides.	2 x 10	$\frac{15 + 33.3}{2}$	0-4		160
		Total.			2483 or 2500 s.ft

17. Rat proof R.C. slab 2-1½" x 0-4".

All round Verandah.	1	189-6	2-1½	0-4	134.44 135

P.T.O.

18. White washing walls in side and colour washing outside 2 coats.
Quantity in item 6500Ø
Total ------ 6500Ø Sf

19. Wooden movable steps. LS.
20. Providing Valley sheets ~~Sft~~ L.S.

---------- (Sd.) K.R. Mahadevan
Spl. Supervisor

MA/31-1-

Abstract of Estimate

Name of work:- Construction of Sub Drainage Building at Kanagarai

Quantity	Description of work	Rate	Per	Amount	Total
4260 Cft	1) Earth work excavating foundation in hard Gravel etc	15	1000 Cft	64	--
4050 Cft	2) Filling in basement with excavated earth in layers of 6" including watering & consolidating	8	2 - "	33	--
1400 Cft	3) Concrete broken stone in lime mortar	67	100 Cft	938	--
6550 Cft	4) Brick work in lime mortar foundation basement & superstructure (with country bricks)	65	10 - "	4298	--
130 Cft	5) Cut stone 2 lines dressed to size on all faces & fixed in cement mortar 1:3	4	150 - Cft	601	--
22 Nos	Cut stone corbals 1'-6" x 0'-9" x 0'-4"	2	8 - each	55	--
6 Nos	7) Country wood door framed & planked etc with Ventilator at top	80	7 - "	483	--
8 Nos	8) Country wood Swing Ventilator 3'-0" x 1'-6"	12	-- "	96	--
24 Nos	9) Do Do 2'-0" x 1'-6"	8	-- "	192	--
104 Cft	10) Country wood wrought & put up	13	8 - Cft	1372	--
628 Sft	11) Reinforced concrete roofing 6½" thick & 3 courses of flat tiles to top	258	8 - 100 Cft	1623	--
1750 Sft	12) Roofing with Mangalore tiles on country wood keepers 2"x1"	63	4 - "	933	--
1500 Sft	13) Flooring with 4" lime concrete & plastered over with cement mortar 1:3 ½" thick	33	11 - "	505	--
6500 Sft	14) Plastering with cement mortar 1:6 ½" thick	8	8 - "	553	--
800 Sft	15) -do- 1:3 ½" thick	11	2 - "	89	--
2500 Sft	16) Painting new wood work 2 coats	7	10 - "	191	--
135 Cft	17) Rat proof R.C. Slab 2'-1½" x 0'-4"	4	13 - Cft	650	--
6500 Sft	18) White washing walls inside and Colour washing outside 2 coats	LS		90	--
4 Nos	19) Wooden movable steps	LS		125	--
LS	20) Providing Valley Sheets	LS		80	--
				12982	--
	Add 10 % for the site being out of place			1298	--
				14280	--
	Contingencies & petty Supervision Charges 5 %			720	
	Total			15000	
				Rs. 15000	

(Sd.) K. R. Mahadevan
Spl. Supervisor.

A.

THE INDIAN ACADEMY OF SCIENCES

FOURTH ANNUAL SESSION

MADRAS

Address all communications to :—
Rao Bahadur Dr. T. S. TIRUMURTI
Principal
STANLEY MEDICAL COLLEGE
MADRAS

STANLEY MEDICAL COLLEGE
MADRAS

DEAR SIR

It has been proposed to invite the Indian Academy of Sciences to hold its Fourth Annual Session at Madras this December (19th to 21st). The idea was approved at a meeting of Scientists representing the various institutions and interests in Madras and an Executive Committee was appointed to make the necessary arrangements. During the session, which will last for three days, original papers will be read and scientific discussions arranged. Public lectures will be delivered by some of the eminent scientists.

The Executive Committee request your kind co-operation and valuable help in making this session a success, by enrolling yourself as a member of the Reception Committee. Donations and subscriptions kindly be collected and sent to the Treasurer, Rao Bahadur Dr. S. Ramakrishnan, Vice-Principal, Medical College, Madras

Yours faithfully,

T. S. TIRUMURTI
S. G. MANAVALA RAMANUJAM
R. GOPALA AYYAR.

Donors, Rs. 25/- and above. Reception Committee members, Rs. 5 - and above. Any contribution will be thankfully accepted

Ordinary members Rs 2/-
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Abstract of Estimate

Name of work :- Construction of Sub Gramage Building at Kunthur

Quantity	Description of work	Sl No	Rate	per	Amount	Total
4250 cft	1) Earth work excavating foundation in hard soil etc		15	100 cft	66	--
4050 cft	2) Filling in basement with excavated earth in layers of 6" including watering and consolidating		8	2 "	33	--
1400 cft	3) Concrete 1:8 broken stone in lime mortar		51	-- 100 cft	714	--
6550 cft	4) Brick work in lime mortar in foundation, basement & superstructure (with country bricks)		66	1 "	4327	--
130 cft	5) Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1:3		4	4 cft	553	--
22 Nos	6) Cut Stone corbals 1'-6" x 0'-9" x 0'-4"		2	8 each	55	--
6 Nos	7) Country wood door framed & planked and etc with Ventilator at top		78	6 "	470	--
8 Nos	8) Country wood Sasing Ventilator 3'-0" x 1'-6"		11	12 "	94	--
24 Nos	9) do do 2'-0" x 1'-6"		7	14 cft	185	--
104 cft	10) Country wood wrought & put up		2	14 cft	1339	
628 Sft	11) Reinforced Concrete roofing 5 1/2" thick & 2 courses of flat tiles to top		242	8 100 Sft	1523	--
1750 Sft	12) Roofing with Mangalore tiled on C.W. reepers 2"x"		48	4 "	844	--
1500 Sft	13) Flooring with 4" lime concrete & plastered over with cement mortar 1:3 1/2" thick		27	6 "	411	--
6500 Sft	14) Plastering with cement mortar 1:5 1/2" thick		8	-- "	520	--
800 Sft	15) -do- 1:3 1/2" thick		10	6 "	86	--
2500 Sft	16) Painting new wood work 2 coats		7	10 "	191	--
135 cft	17) Rat proof R.C. Slab 2'-1 1/2" x 0'-4"		4	8 c.ft	608	--
6500 Sft	18) White washing walls inside & colour washing outside 2 coats		LS		90	--
1 Nos	19) Wooden movable Steps		LS		125	--
LS	20) Providing Valley Sheets		LS		80	
					12315	
	Add 10 % for site lasing out & place				1231	
					13546	
	Contingencies & petty Supervision Charged 5 %.				674	
	Total				14220	--

Rd. 14220/A

(Sd) K. R. Mahadevan
Spl. Supervisor

THE INDIAN ACADEMY OF SCIENCES

FOURTH ANNUAL SESSION

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G. T. MADRAS

Dated 1938

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Mr. S. Paramasivan, M. A., B. Sc.

Abstract of Estimate

Name of work: Construction of Sub Grainage Building at Hana

Quantity	Description of work	Rate	Per	Amount
4250 C.ft.	1) Earth work excavating foundation in hard soil etc	15 10 -	1000 C.ft.	66
4050 C.ft.	2) Filling in basement with excavated earth in layers of 6" including watering & consolidating	8 2 -	"	33 - -
1400 C.ft.	3) Concrete broken stone in lime mortar	58 11 -	100 C.ft.	822 - -
6650 C.ft.	4) Brick work in lime mortar in foundation basemen and superstructure (with country bricks)	69 14 -	"	4577 - -
130 C.ft.	5) Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1:3	4 14 -	C.ft.	634 - -
22 Nos.	6) Cut stone corbals 1'-6" x 0'-9" x 0'-4"	2 8 -	each	58 - -
6 Nos.	7) Country wood door framed & planked etc with Ventilator at top	80 13 -	"	485 - -
8 Nos.	8) Country wood swing Ventilator 3'-0" x 1'-6"	12 4 -	"	98 - -
24 Nos.	9) Do Do 2'-0" x 1'-6"	8 3 -	"	197
104 C.ft.	10) Country wood wrought & put up	13 6 -	C.ft.	1385 - -
628 S.ft.	11) Reinforced concrete roofing 3½" thick and 2 courses of flat tiles to top	260 - -	100 S.ft.	1638 -
1750 S.ft.	12) Roofing with mangalore tiles on country wood reepers 2"x1"	55 2 -	"	965 -
1500 S.ft.	13) Flooring with 4" lime concrete and plastered over with cement mortar 1:3 ½" thick	31 7 -	"	472 - -
6500 S.ft.	14) Plastering with cement mortar 1:5 ½" thick	8 12 -	"	569 - -
800 S.ft.	15) Do 1:3 ½" thick	11 9 -	"	93 - -
2500 S.ft.	16) Painting new wood work 2 coats	7 10 -	"	191 - -
135 C.ft.	17) Rat proof R.C. slab 2'-1½" x 0'-4"	4 13 -	C.ft.	650 - -
6500 S.ft.	18) White washing walls inside and colour washing outside 2 coats	L.S		90 - -
1 Nos.	19) Wooden movable Steps	L.S		125 - -
L.S	20) Providing Valley Sheets	L.S		80
				13220 - -
	Add 10% for the site being out of place			1322 - -
	Total			14542 - -
	Contingencies & petty Supervision charges 5%			728
	Total Rs.			15270 - -

Rs. 15270 /-

(Sd) K. R. Mahadevan
Spl. Supervisor.

THE INDIAN ACADEMY OF SCIENCES

FOURTH ANNUAL SESSION

MADRAS

Address all communications to :—
Rao Bahadur Dr. T. S. TIRUMURTI
Principal
STANLEY MEDICAL COLLEGE
MADRAS

STANLEY MEDICAL COLLEGE
MADRAS

Dated .....

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DEAR SIR,

It has been proposed to invite the Indian Academy of Sciences to hold its Fourth Annual Session at Madras this December (19th to 21st). The idea was approved at a meeting of Scientists representing the various institutions and interests in Madras and an Executive Committee was appointed to make the necessary arrangements. During the session, which will last for three days, original papers will be read and scientific discussions arranged. Popular lectures will be delivered by some of the eminent scientists.

The Executive Committee request your kind co-operation and valuable help in making this session a success, by enrolling yourself as a member of the Reception Committee. Donations and subscriptions may kindly be collected and sent to the Treasurer, Rao Bahadur Dr. S. Ramakrishnan, Vice-Principal, Medical College, Madras.

Yours faithfully,

T. S. TIRUMURTI
S. G. MANAVALA RAMANUJAM
R. GOPALA AYYAR

Donors, Rs. 25 - and above. Reception Committee members, Rs. 5 - and above. ~~Any contribution will be thankfully accepted.~~

Good enough members Rs 2/- above etc

ESTIMATE DETAILED MEASUREMENT SHEET.

Name of Work:-Constructing grainage Assistant quarters at Kamagerai, Kunthur and Hanur.

S.No.	Details of work.	Number.	Measurement in feet. Length.	Breadth.	Height. Depth.	Area or contents.	Total.
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
1)	Earth work excavation foundation in hard soil etc.						
	Main walls allround.	1	91- 0	3- 0	3-6	956	
	Middle Wall.	1	24- 3	3- 0	3-6	255	
	Cross wall between bed room and living room.	1	8-1½	3- 0	3-6	85	
	-Do- Kitchen and Stores.	2	4-1½	3- 0	3-6	87	
	Verandah retaining wall 3 sides.	1	36- 3	2- 6	3-0	272	
	Bathroom 3 sides.	1	24-4½	3- 0	3-6	256	
	Latrine wall 3 sides.		15-4½	2- 6	3-0	115	
	Compound wall 2 sides.	1	34-0¾	2- 6	3-0	256	
	Steps front	1	4 -6	1-9¾	0-6	4	
	rear.	2	4- 6	0- 9	0-6	3	
	Total.					2,289 or	2,300 cft.
2)	Concrete broken stone in lime mortar 1st grade stone.						
	Foundation. Main walls allround.	1	91- 0	3- 0	1-6	410	
	Middle wall.	1	24- 3	3- 0	1-6	109	
	Cross wall between bed and living room.	1	8-1½	3- 0	1-6	37	
	-Do- Kitchen and Stores.	2	4-1½	3- 0	1-6	37	
	Verandah retaining wall.	1	36- 3	2- 6	1-0	91	
	Bathroom 3 sides.	1	24-4½	3- 0	1-6	110	
	Latrine wall 3 sides.	1	15-4½	2- 6	1-0	38	
	Compound wall 2 sides.	1	34-0¾	2- 6	1-0	85	
	Steps.	3	4-6	2-3¾	0-6	16	
	Total.					933 or	950 cft.
3)	Country bricks in lime mortar 1 : 2						
	Foundation: Main walls allround.	1	91- 0	1-10½	2-0	341	
	Middle wall.	1	25-4½	1-10½	2-0	95	
	Cross wall between Bed and living room.	1	9- 3	1-10½	2-0	35	
	-Do- Kitchen and Stores.	2	5- 3	1-10½	2-0	39	
	Verandah retaining wall.	1	37-4½	1- 6	2-0	112	
	Bath room 3 sides.	1	25- 6	1-10½	2-0	96	
	Latrine Wall 3 sides.	1	16- 6	1- 6	2-0	49	
	Compound wall.	1	35-1½	1- 6	2-0	105	
	Basement: Main walls allround.	1	91- 0	1- 6	1-6	205	
	Middle wall.	1	25- 9	1- 6	1-6	58	
	Cross wall between bed and living room.	1	9-7½	1- 6	1-6		
	-Do- Kitchen and Stores.	2	5-7½	1- 6	1-6	35	
	Verandah retaining wall.	1	37- 9	1-1½	1-6	64	
	Bath Bathroom walls.	1	25-10½	1- 6	1-0	39	

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
	Latrine wall.	1	16-10½	1-1½	1-0	19	
	Compound wall.	1	35- 6	1-1½	1-0	40	
	Steps front.	1	3- 6	2-0	0-6	4	
		1	3- 6	1-0	0-6	2	
		2	3- 6	1-0	0-6	4	
	Superstructure:-Main walls all round front rooms.	1	76- 9	1-1½	(a) 11-6	993	
	Rear wall rectangular portion.	1	28-4½	1-1½	0-3	8	
	Cross wall between bed and living room.	1	10- 0	1-1½	11-6	129	
	Trapezoidal portion cross and end walls.	3	$\frac{10 + 9\frac{1}{2}}{2}$	1-1½	0-3	8	
	-Do- Triangular portion.	3	$\frac{9- 6}{2}$	1-1½	3-6	55	
	Kitchen and Store room ~~rear wall~~ real wall.	1	28-4½	1-1½	7-3	231	
	Cross and Side walls.	4	6- 0	1-1½	$\frac{11\frac{1}{2}+7\frac{1}{2}}{2}$	257	
	Front Verandah side walls.	2	6- 0	1-1½	$\frac{11 + 7-3}{2}$	123	
	Bath room walls front wall.	1	10-1½	1-1½	7-9	88	
	real wall.	1	10-1½	1-1½	12-3	139	
	side wall.	1	6-0	1-1½	$\frac{12\frac{1}{4} + 7\frac{3}{4}}{2}$	67	
	Latrine wall 3 sides.	1	17-3	0-9	7-0	91	
	" Dwarf wall	1	7-9	1-1½	1-0	9	
	Compound wall.	1	35-10½	0-9	6-0	161	
	Extra at Door portion of compound wall.	1	4-9	0-4½	6-0	11	
	Coping.	1	4-9	1-1½	0-6	3	
	Extra for pillars.	1	1-1½	0-4½	6-0	3	
	Total.					3,730	
	Deduction - Doors.	5	3-0	1-1½	6-6	110	
	Rear Bath room yard door.	3	2-6	1-1½	6-0	51	
	Latrine doors.	1	2-6	0-9	6-0	11	
	~~Windows Kitchen doors~~ Windows.	8	2-6	1-1½	3-6	79	
	Wall Shelves.	3	3-0	0-9	4-0	27	
	Printaloon doors, windows and Latrine. as in item 4					44	
						330	
	Net Total.					3,400	or 3,400 e.f
4)	Cut Stone 2 lines dressed to size on all faces and fixed in cement mortar 1 : 3.						—
	Lintals over doors.	5	4-6	1-1½	0-6	12.66	
	"	3	4-0	1-1½	0-5	5.63	
	Windows.	8	4-0	1-1½	0-5	15.00	
	Ventilator.	2	4-0	1-1½	0-5	3.75	
	Latrine door.	1	4-0	0-9	0-5	1.25	
	Over wall shelves	2	4-6	0-9	0-6	5.06	
	Total.					43.35	or 44 e.f
5)	Cut stone base stones 7" X 7" X 5" neatly dressed to size on all faces and fixed.	3				3	3 Nos.
	Total.						
6)	Country wood door lodged braced and planked etc. 3=0 X 6-6	5				5	5 Nos.
	Total.						

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
7)	Country wood door ledged braced and planked etc. 2-6 X 6-0						4
	Total.					8	
8)	-Do- Windows. 2-6 X 3-6	8					8
	Total.					2	
9)	-Do- Ventilators with 2 leaves 2-6" X 1-6	2					2
	Total.						
10)	Country wood wrought and ~~front~~ up - Roof collars.	15	9'-3"	0-2	0-4	7.48	
	Wall plate.	3	30-10½"	0-3"	0-3"	5.79	
	-Do- Bath room.	2	11-6	0-3"	0-3"	1.44	
	~~Dressummer at Verandah.~~	~~1~~	~~30-10½~~	~~0-3~~	~~0-5"~~	~~3.22~~	
	Verandah posts						
	Common rafter over Bed & living room front, portion.	15	8-0	0-2"	0-4"	6.67	
	" rear.	15	7-0	0-2"	0-4"	5.83	
	" Verandah.	16	10-0	0-2"	0-4"	8.88	
	" Rear Rooms.	11	11-5	0-2"	0-4"	6.98	
	Bath room.	5	11-6	0-2	0-4"	3.17	
	Jack rafters.	2X4	6-6	0-2	0-4"	2.78	
	Valley rafter.	1	15-0	0-2½	0-5"	1.30	
	Check pieces.	3 X 2	1-3	0-4	0-1½	0.81	
	Add for joints.					1.29	
	Total.					57.17 or	57 C.f
11)	Best tiled roofing with Mangalore tiles including country wood reepers 2"X1"				1o-o		
	Front.	1	30-7½	16x6	505	505	
	rear.	1	30-7½		17-0	521	
	Bath room.	1	18-6 + 10-6½ / 2		11-6	165	
	Total.					1,191	
	Deduct for - Triangular portion over kitchen.	1	9-6 / 2		10-0	48	
	Net total.					1,143 or	1,150
12)	Plastering with lime mortar 1 coat ½" thick for white washing 2 coats.						
	Inside: Living room. front wall	1	14-0		11-6	161	
	rear.	1	14-0		11-9	165	
	Gable trapizoidal portion	2	10 + 9½ / 2		0-3"	5	
	Triangular portion.	2	9-6 / 2		3-6	33	
	Bed room. Front wall.	1	11-0		11-6	127	
	rear.	1	11-0		11-9	129	
	Gable Trapezoidal portion.	1	10 + 9½ / 2		0-3	5	
	Triangular portion.	2	9-3 / 2		3-6	32	
	Kitchen:- Front Wall	1	11-0		11-6	127	
	Rear wall.	1	11-0		7-3	80	
	Gable walls.	2	6-0		11½ + 7-3 / 2	113	
	Passage: Front wall.	1	4-10½		11-6	56	
	Rear Wall.	1	4-10½		7-3	35	
	Gables walls.	2	6-0		11½ + 7¼ / 2	113	

16

(2)	(3)	(4)	(5)	(6)	(7)	(8)
Stores. Front Wall.	1	8- 0		11 6	92	
" rear.	1	8- 0		7 3	58	
Gable walls.	2	6- 0		$\frac{11\frac{1}{2} + 7\frac{1}{4}}{2}$	115	
Outside. Front Verandah Wall.	1	26-$1\frac{1}{2}$		$\frac{12 + 7\frac{3}{4}}{2}$ 11 0	287	
Side walls.	2	6- 0		$\frac{11\frac{1}{2} + 7\frac{1}{4}}{2}$	110	
Faces of	2	1-$1\frac{1}{2}$		7 3	16	
Outside ends.	2	25-$4\frac{1}{2}$		$\frac{7\frac{1}{4} + 15}{2}$	565	
Rear wall of Kitchen and stores etc.	1	19-$4\frac{1}{2}$		7 3	140	
Bathroom o1d side wall.	1	10-1		7 3	73	
-Do-Side	1	7-6		$\frac{12 + 7-3}{2}$	72	
Latrine wall all round	1	17-3	14- 9		245	
Compound wall all round.	1	35-$10\frac{1}{2}$	12- 9		458	
Extra for	4	0-$4\frac{1}{2}$		6 0		
Basement.- Main building front and sides.	1	79- 6		1 8	133	
" rear.	1	19- 0		1 8	32	
-Do- Bath room and latrine and compound wall.	1	48 6		1 2	57	
Portion at Bath room	1	0 9		1 2	1	
Compound wall out side.	1	60 3		1 2	70	
Side and top of door	5	16 0	0-$9\frac{1}{2}$		63	
Passage bathroom and yard door	3	14 6	0-$9\frac{1}{2}$		34	
Latrine.	1	14 6	0-5		6	
Windows sides & top.	8	9 6	0-$10\frac{1}{2}$		67	
Ventilators.	2	8 0	0-$10\frac{1}{2}$		15	
Extra over yard door	1	4 9	0-$4\frac{1}{2}$		2	
Sides.	2	1 $1\frac{1}{2}$		1 0	2	
Sides of wall shelves	3	14 0	0-9		32	
Total.					4,230	
Deductions - Doors.	2X5	3 0		6 6	195	
"	2X4	2 6		6 0	120	
Windows.	2X8	2 6		3 6	140	
Ventilators.	2X2	2 6		1 6	15	
Cement plastering bath room.	1	29 6		2 6	74	
Latrine.	1	21 3		2 6	53	
					597	
			Net Total.		3,633 or 3,700 SH.	
) Plastering with cement mortar 1:3 $\frac{1}{2}$" thick.					33	
Top of verandah retaining wall.	1	26 $1\frac{1}{2}$	1 $1\frac{1}{2}$		29	
Door Sills.	5	3 0	0 $9\frac{1}{2}$		12	
-Do-	3	2 6	0 $9\frac{1}{2}$		6	
"	1	2 6	0 5		1	
Window Sills.	8	2 6	0 $10\frac{1}{2}$		18	
Step front.	1	3 6	2 0		7	
Sides.	2	2 0		0 9	3	
Step rear.	2	3 6	1 0		7	
Sides.	2 X 2	1 0		0 6	2	
Latrine Dwarf wall.		7$\frac{1}{2}$		1 0	7	

Item 13 contd

Latrine dwarf wall	1	18-10½		1-0	9
Latrine walls abroad	1	21-9		2-6	54
Bath room wall	1	30-0		2-6	75
		Total			230
Deduct for :- doors	2	2-6		2-6	13
		Net Total			217 or 220 S.ft.

14 flooring with concrete broken Stone in lime mortar 4" Thick & plastered over with cement mortar 1:3 ½" thick

Verandah	1	25-9	4-8½	135
Bed room	1	10-7½	9-7½	102
Living room	1	13-7½	9-7½	131
Kitchen	1	10-7½	5-7½	57
passage	1	5-7½	4-6	25
Stores	1	7-7½	5-7½	43
Bath room	1	8-7½	5-7½	48
Latrine	1	5-7½	4-6	25
		Total		566 or 560 S/ft

15. painting with grey paint 2 coats

Door	5x2¼	3-0		6-6	219
"	3x2¼	2-6		6-0	135
windows	8x2¼	2-6		3-6	158
Ventilator	2-2¼	2-6		1-6	17
Ridge	1	15-3	1-9	~~1-9~~	27
"	1	11-3	1-5	~~1-5~~	16
Barge mortar	1	36-6½	1-4		41
Verandah posts	3	1-4		61	24
Common rafters over main room front	15	7-0	0-6		88
Do — rear	15	6-0	0-6		75
Front Verandah	16	10-0	0-6		133
rear.	11	10-6	0-6		96
Bath room	5	10-6	0-6		46
Jack rafters	2x4	6-6	0-6		43
Valley rafters	1	13-0	1-0½		14
projection of wall plate	8	1-3	1-0		16
		Total			1142 or 1150 S/ft

To D.F.

Dated 7th April 1938. Camp: Tuticorin.

Two

1. one confidential cover and ~~xxx~~ ordy. cover to D.F.
2. 947-F/38-Est-S.I-transfer of - SPECIAL
3. No.412-F/37-F.c.yards-Collections during christmas-remittance
4. ~~Xxx~~ Increment certificate - M.R.Ry.Jayaram Naidu-Note to D.F
5. Tour programme of Regr.of Co-operative Societies for April 1938.
6. No.982-F/38-F.c.yards-Kodumbi-irregularities-P.Y.O.punishment-awarded
7. Diary W.E.26-3-38- Tanur station
8. Intimation for Rs ~~xx~~ 150/- to A.G.
9. Diary W.E.26-3-38-I.F(T)
10. No.3112-E/37-Pickled Mackerel-
11. No.685-E/38-Tanur station-training of persons-
12. No.7-G/38-Prov.first periodical conference-subjects for discussion
13. No.D.Dis.1455-G/36-Exhibition-Agri.& Indus.Tiruppur-pariticipation of
14. No.630-F/38-F.c.yards-Battigallur-inspection remarks-
15. No.3694-I/37-Fish Farm-Chingleput-Fort + ~~Xxx~~ oat.
16. No.532-I/38-Specimens-enquiry-
17. No.902-C/38-Edn-Puthankadapuram school-raising to H.E.grade.
18. No. ~~254-I/38~~ 814 I/38-Fish Farm-Deep water fishing Expts.-Mopad
19. No.1672-B/37-Dr.Viswanantha -tent charges-recovery-
20. I.P.2/4-Diary A.D(B)-Note to D:F.
21. No.I.P.4/4-Tour programme of I.F(V) for April 1938
22. No.3501-I/37-River Fisheries-W.C-stake net fishing-licences-
23. No.1003-C/38-Ins. ~~xxx~~ Rem. Azhicode school
24. No.1002-C/38 - do Quilandy school
25. No.1004-I/38-Weekly report on Kod Kotekera tanks
26. Post copy of telegram to D.F.
27. Tour programme of of the Director of Industries for April 1938
28. No.796-I/38-Fisheries-Inland(Chingleput)-Sriperumbudur taluk-Ne
29. No.952-C/38-Organization-Co-operative Socieites for fishermen
30. No. 2662-I/37. River Fisheries -Edupur swamp-N.Vizag Dt. sale of.
31. Application from Mr.M.Gopala Warrier to Secy to Govt.L.A.Deptt.
32. Advance T.A.Bill for L.A.Vizag.

All Returned

30. 1225-G/38 - G.O.No.120, Revenue, d/ 15-1-38.

31. 1227-G/38 - G.O.No.566, Public (ervices) d/29-3-38.

32. 1223-G/38 - G.O. No.P.702 (Public Services), d/20-'-38.

33. The Japan Times and Mail - February 1935.

Date: 5th May 1938. Camp: Mangalore.

List of tappals sent to D.F.

1.

2. One big confidential packet.

URGENT. 3. 1023-M/38 - Inspection of Pearl Banks - Pearl oysters fished off Musal Tivu - Report from I.F. P & C.

" 4. 1272-I/38 - Estt. - Mr. M.Balajee, A.I. Mettur - L.A.P.

" 5. 255-I/37 - Tanur Station - Chemical Laboratory - Housing of.

6. 5122-I/35 - Experiments - Fish Culture.

7. 163-C/38 - F.C.yards - Cochin - Petition for opening of - Letter to Govt. - Fair copy for signature.

8. 1261-F/38 - F.C.yards - Uppada - D.F.'s inspection remarks dated 6.3.38.

9. 3641-I/37 - F.C.yards - 'Ascu' Solution - despatch.

10. 3112-I/37 - Tanur station - Pickled Canadian Mackerel - sample - supply of.

11. 818--I/37 - Tank Fisheries - Kodi tank - auction of.

12. 1559-C/37 - Ponnani Taluk - Talikulam fisheries school - Bldg. - acquisition.

13. 501-C/36 - Education - New school - opening - Hajmadi school - opening.

14. 989-F/38 - Estt. - A.D. - S.Is. - posting of.

15. 947-F/38 - Estt. - S.Is. - Transfer of.

16. D.Dis.3340-C/35 - Education - Schools - New - opening - Kesar Kodi - Shirur village.

17. 2698-C/37 - Education - Sri Jnanodaya Fisheries school, Mangalore - Bldg.

18. 1030-I/33 - Tank Fisheries - S.Kanara Dt. - Kodi tank - Construction of an inlet sluice.

19. 1047-B/38 - D.O. d/ 6/9-4-38 from Dr. Gravely.

20. A.D.B's note to D.F. on Iron girders at Trusadai.

21. One note re: Motor rod sent with H.A.

22. 1267-F/38 - F.C.yards - T.C. - Nizampatam - opening of.

23. 871-I/38 - Ennur - Estt. - Mr. Giriappa - L.A. - Annual increment.

24. 1185-B/38 - Kr. Island - Removal of Keeri trees - Petition.

25. 601-B/37 - Letter No.4/38 d/ 3-5-38 from R.A.Kr.

26. L.Dis.460-C/38 - Education - Talikulam and South Nattika schools - Annual inspection report.

27. L.Dis.363-C/38 - Education - Kottakadapuram fisheries school - Annual inspection report.

28. 1222-I/38 - Public (General) Dept. Memo. No.1074/38-4 dated 28.3.38.

29. I. . /1 - Tour programme of D.F. for May 38.

A B S T R A C T O F E S T I M A T E.

Name of Work: Constructing grainage Assistant Quarters at Kamagerai.

Quantity.	Description of work.	S.I. No.	Rate. Rs. A. P.	Per.	Amount. Rs. A. P.	Total. Rs. A. P
2300 c.ft.	1. Earth work excavation foundation in hard soil etc.,		15 10 0	1000 c.ft.	36 0 0	
950 c.ft.	2. Concrete broken stone in lime mortar Ist grade stone.		67 10 0	100 c.ft.	642 0 0	
3400 c.ft.	3. Country bricks in lime mortar 1 : 2		65 10 0	"	2,231 0 0	
44 c.ft.	4. Cut Stone 2 lines dressed to size on all faces and fixed in cement mortar 1 : 3		4 10 0	c.ft.	204 0 0	
3 No.	5. Cut stone base stones 7" x 7"x 5" neatly dressed to size on all faces ~~dressed~~ and fixed		2 8 0	each.	8 0 0	
5 No.	6. Country wood door ledged braced and planked etc., 3-0 x 6-6		54 6 0	each.	272 0 0	
4 No.	7. Country wood door ledged braced and planked etc., 2-6 x 6-0		41 4 0	"	165 0 0	
8 "	8. -do- windows 2-6 x 3-6.		26 13 0	"	215 0 0	
2 "	9. -do- Ventilators ~~with 2-6x1-6 c leaves 2x6"x1x6"~~ with 2 leaves		10 8 0	"	21 0 0	
57 c.ft.	10. Country wood wrought and put up-~~Rxxpxxxxxxx~~		13 3 0	c.ft.	752 0 0	
1150 sq.ft.	11. Best tiled roofing with Mangalore tiles including country wood reepers 2" x 1".		53-4-0	100 sq.ft	612-0-0	
					264-0-0	
3700 sq.ft.	12. Plastering with lime mortar 1 coat ½" thick for white washing 2 coats.		7-2-0 ~~53-4-0~~	~~100~~ sq.ft.	~~612-0-0~~ ~~6-12-0~~	
220 sq.ft.	13. Plastering with Cement mortar 1 :3 ~~½"~~ ½" thick.		11 2 0		25 0 0	
560 sq.ft.	14. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1 :3 ½" thick.		33 11 0	100 sq.ft.	189 0 0	
1150 sq.ft.	15. Painting with gray paint 2 coats.		7 10 0		88 0 0	
L S.	16 Providing 1" thick planks for wall shelves.		L S		25 0 0	
L S.	17. Providing fire places and sinks ~~suits~~ in kitchen and bath rooms.		L S		25 0 0	
L S.	18. Construction of masonry drain etc..		L S		100 0 0	
	.Cleaning and levelling sites.		L S		50 0 0	
					5,924 0 0	

P.T.O.

		B/F.	5,924	0 0
L S.	20. Filling in basement with excavated earth.		5	0 0
	Contengencies and Petty ~~expension~~ Supervision charges.		280	0 0
			6,209	0 0
	Add 10% for the works being ~~the one~~ out of the place.		620	0 0
			6,829	0 0
			OR	
		T o t a l.	6,830	0 0

A B S T R A C T O F E S T I M A T E.

Name of Work: Constructing grainage Assistant Quarters at Kunthur.

Quantity.	Details of work.	S.I. no.	Rate Rs.	A.	P.	Per.	Amount Rs.	A.	P.	Total Rs.	A.	P.
1	2	3	4			5	6			7		
2300 c.ft.	1. Earth work excavation foundation in hard soil etc.,		15	10	0	1000 c.ft.	36	0	0			
950 c.ft.	2. Concrete broken stone in lime mortar Ist grade stone.		51	10	0	100 c.ft.	485	0	0			
3400 c.ft.	3. Country bricks in lime mortar 1 : 2.		66	1	0	"	2,246	0	0			
44 c.ft.	4. Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1 : 3.		4	4	0	c.ft.	187	0	0			
3 No.	5. Cut stone base stones 7" x 7" x 5" nearly dressed to size on all faces and fixed.		2	8	0	each.	8	0	0			
5 No.	6. Country wood door ledged braced and planked etc., 3-0 x 6-6.		53	6	0	each.	267	0	0			
4 "	7. Country wood door ledged braced and planked etc., 2-6 x 3-6.		40	8	0	"	162	0	0			
8 "	8. -do- windows. 2-6 x 3-6.		25	4	0	"	202	0	0			
2 "	9. -do- Ventilators with 2 leaves		10	4	0	"	21	0	0			
57 c,ft.	10. Country wood wrought and ~~polished~~ up		12	14	0	c.ft.	734	0	0			
1150 sqft.	11. Best tiled roofing with Mangalore tiles including country wood reepers 2" x 1":		48	4	0	100 s.ft.	555	0	0			
3700 sq.ft.	12. Plastering with lime mortar 1 coat ½" thick and white washing 2 coats		7	2	0	"	264	0	0			
			10	6	0	"	23	0	0			
220 S. ft.	13 -do- with cement mortar 1:3 ½" thick											
						C/F	5,190	0	0			

Quantity.	Description of work.	S.I. no.	Rate.	Per.	Amount	Total.
			Rs. A. P.		Rs. A. P.	Rs. A.P.
220 ~~sq.ft.~~	~~13.Plastering with cement mortar 1 : 3½" thick~~	B/f	~~10 6 0~~	~~100 sq.ft.~~	5190.0 → ~~23 0 0~~	
560 sq.ft.	14.Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1 : 3½" thick.		27 6 0		153 0 0	
1150 sq.ft.	15.Painting with gray paint 2 coats.		7 10 0		88 0 0	
L S.	16.Providing 1" thick planks for wall shelves.		L S		25 0 0	
L S.	17.Providing fire places and ~~Sinks~~ in kitchen and bath rooms.		L S		25 0 0	
L S.	18.Construction of masonry drain etc.,		L S		100 0 0	
L S.	19.Cleaning and levelling sites.		L S.		50 0 0	
					5,631 0 0	
	Filling on basement with excatated earth.				5 0 0	
	Contingencies and petty ~~expension~~ Supervision charges.				281 0 0	
					5,917 0 0	
	Add 10% for the works being ~~the~~ out ~~one~~ of the place. may				590 0 0	
					6,507 0 0	
					OR	
			Total -Rs.		6,500 0 0	

A B S T R A C T O F E S T I M A T E.

Name of work: Constructing grainage Assistant Quarters at Hanoor.

Quantity.	Description of work.	S.I. no	Rate.	Per.	Amount.	Total.
			Rs. A. P.		Rs. A. P.	Rs. A.P.
2300 c.ft.	1.Earth work excavation foundation in hard soil etc.,		15 10 0	1000 c.ft.	36 0 0	
950 c.ft.	2.Concrete broken stone in lime mortar Ist grade stone.		58 11 0	100 c.ft.	55 0 0	
3400 c.ft.	3.Country bricks in lime mortar 1 : 2		69 14 0	"	2,376 0 0	
44 c.ft.	4.Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1 : 3.		4 14 0	c.ft.	215 → ~~3 15 0~~	
3 No.	5.Cut stone base stones 7" x 7" x 5" neatly dressed to size on all faces and fixed.		2 8 0	each	8 0 0	

P.t.o.

Quantity.	Description of work.	I.S. no	Rate. Rs. A. P.	per.	Amount Rs. A. P.	Total. Rs. A.P.
5 No.	6. Country wood door ledged braced and planked etc., 3-0 x 6-6.		54-13-0 58 15 0	each	274 0 0	
4 No.	7. Country wood door ledged braced and planked etc., 2-6 x 6-6		42 8 0	"	170 0 0	
8 No.	8. -do- windows. 2-6 x 3-6.		27 0 0	"	216 0 0	
2 No.	9. -do- Ventilators with 2 leaves.		10 8 0	"	21 0 0	
57 c.ft.	10. Country wood wrought and ~~painted~~ up.		13 5 0	c.ft.	759 0 0	
1150 sq.ft.	11. Best tiled roofing with Mangalore tiles including country wood reepers 2" x 1"		55 2 0	100 sq.ft.	634 0 0	
3700 sq.ft.	12. Plastering with lime mortar 1 coat ½" thick and white washing 2 coats.		6 15 0	"	257 0 0	
220 sq.ft.	13. Plastering with cement mortar 1 : 3 ½" thick.		11 9 0	"	25 0 0	
560 sq.ft.	14. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1 : 3 ½" thick.		31 7 0	100 sq.ft.	176 0 0	
1150 sq.ft.	15. Painting with grey paint 2 coats.		7 10 0	"	88 0 0	
L S.	16. Providing 1" thick plank for wall shelves.		L S.		25 0 0	
L S.	17. Providing fire place and sinks in kitchen, and Bath rooms.		L S.		25 0 0	
L S.	18. Constructing masonry drain etc.,		L S.		100 0 0	
L S.	19. Clearing and levelling sites.		L S.		50 0 0	
					6,013 0 0	
L S.	20. Filling in basement with excavated earth.				5 0 0	
	Contingencies & petty ~~expenses~~ Supervision charges.				300 0 0	
					6,318 0 0	
	Add 10% for the works being ~~the~~ out ~~one~~ of the place.				630 0 0	
					6,948 0 0	
					OR	
			T o t a l.	Rs.	6,950 0 0	

Estimate Detailed Measurement Sheet.

Name of Work: Constructing Clerk Quarters for Subgrainage Buildings at Kamagerai, Kunthur and Manur.

Details of Work.	Number.	Measurement in feet. Length	Breadth	Depth.	Area or Content.
(1)	(2)	(3)	(4)	(5)	(6)
1) Earth Work excavation foundation in hard soil etc.					
Main Walls all round	1	85-0	3-0	3-6	893
Cross wall longitudinal	1	20-3	3-0	3 [illegible]-6	[illegible]3
Cross wall between bed room and hall	1	8-1½	3-0	3-6	85
Cross wall between kitchen and dining.	1	5-1½	3-0	3-6	54
Walls 3 sides of bath room	1	18-7½	2-6	3-0	140
-do- stores	1	19-7½	2-6	3-0	147
Front verandah retaining wall	1	20-1½	2-6	3-●	151
" rear	1	4-7½	2-6	3-0	35
Compound wall 3 sides	1	42-7½	2-6	3-0	320
Latrine 2 sides	1	9-0	2-6	3-0	68
Steps front	1	5-0	1-7½	1-0	8
rear			1-7½	1-0	6
					2120
				or Total	2200
2) Filling in basement with excavated soil other than sand in 6" layers watering and consolidating.					
Hall	1	10-7½	9-7½	1-2	119
Bed room	1	9-7½	9-7½	1-2	108
Dining Room	1	10-7½	6-7½	1-2	82
Kitchen	1	9-7½	6-7½	1-2	74
Store room	1	7-6	5-6½	1-2	49
Bath room	1	6-6	5-6½	1-2	42
Front Verandah	1	5-10½	2-6½	1-2	18
Open yard and Latrine	1	22-4½	9-6	0-6	106
					598
				cl	600
3) Concrete broken Stone in lime mortar 1:2 1st grade stone.					
Main Walls all round	1	85-0	3-0	1-3	[illegible]3
Cross Wall	1	20-3	3-0	1-3	91
Cross wall between bed room and hall	1	8-1½	3-0	1-6	37
-do- Kitchen and Dining room	1	5-1½	3-0	1-6	23
Walls all round bath room	1	18-7½	2-6	1-0	47
-store/	1	19-7½	2-6	1-0	49
Verandah retaining wall front	1	20-1½	2-6	1-0	50
rear	1	4-7½	2-6	1-6	12
Compound wall 3 sides	1	42-7½	2-3	1-0	107
Latrine 2 sides	1	9-0	2-6	1-0	23
Steps front	1	5-0	2-6	0-6	6
" rear	1	3-6	2-6	0-6	5
					833
				or Total	850

p.t.o.

(1)	(2)	(3)	(4)	(5)	(6)
4) Brick work in lime mortar with country bricks:					
Foundation:- 1st footing Main walls allround	1	85-0	1-10½	1-6	239
" Cross Wall	1	21-4½	1-10½	I-6	60
Cross wall between bedroom and hall	1	9-3	1-10½	1-6	24
-do- Kitchen and Dining room	1	6-3	1-10½	1-6	18
Walls allround bath room	1	19-9	1-6	1-6	44
" Store	1	20-9	1-6	I-6	46
Verandah retaining wall front	1	21-3-	1-6	1-6	48
rear	1	5-7½	1-6	1-6	13
Compound wall 3 sides	1	43-7½	1-6	1-6	98
Latrine 2 sides	1	10-0	1-6	1-6	33
Foundation and footing and basement					
Main walls all round	1	85-0	1-6	2-0	255
Cross Wall	1	21-9	1-6	2-Ø	65
Cross wall between bedroom and hall	1	9-7½	1-6	2-0	29
-do- Kitchen and Dining room	1	6-7½	1-6	2-0	20
Walls all round bath room	1	20-1½	1-1½	2-0	45
-do- Store	1	21-1½	1-1½	2-0	48
Verandah retaining wall	1	21-7½	1-1½	2-0	49
-do- rear	1	6-0	1-1½	2-0	14
Compound wall	1	44-0	1-1½	1-6	74
Latrine 2 sides	1	10-4½	1-1½	1-6	18
Superstructure					
Main walls all round - bed room and hall	1	68-9	1-1½	9-9	754
Rectangular portion of middle wall	1	24-4½	1-1½	5-6	154
Cross wall middle	1	10-0	1-1½	9-9	110.
Triangular portion of cross and end wall	3	10-0	1-1½	5-6 / 2	93
Walls allround dining room and kitchen 3 sides	1	38-4½	1-1½	11-3	486
Cross wall between kitchen and dining room	1	7-0	1-1½	11-3	89
Triangular portion of cross wall and end wall	3	7-0	1-1½	4-0 / 2	47
Bath room wall 3 sides	1	20-6	0-9	7-9	119
Triangular portion	2	6-0	0-9	3-9 / 2	17
Store Room	1	21-6	0-9	6-9	125
Triangular portion	2	6-0	0-9	3-9 / 2	17
Front Verandah wall 3 sides	1	22-0	0-9	6-9	111
Compound wall 3 sides including caping	1	44-4½	0-9	6-0	200
Latrine wall 2 sides	1	10-9	0-9	7-0	56
Extra over compound wall at Latrine portion.	1	7-6	0-9	1-0	4
Seat 2 sides	1	6-0	1-1½	1-0	9
Coping over yard door	1	4-0	1-1½	0-9	3
Extra for pillers at sites of door	2	4-9	0-2½	6-0	11
-do- at corners	2	1-1½	0-2½	6-0	3
"	2	0-11½	0-2½	6-0	2
"	2x2	0-2½	0-2½	6-0	1
Coping over latrine doors	1	4-9	0-9	0-6	2
Steps front	1	4-0	2-0	0-6	4
"	1	4-0	1-0	0-6	2
" rear	1	4-0	1 -0	0-9	3
				Total.	3649

(1)	(2)	(3)	(4)	(5)	(6)
Deductions:- Doors.	6	3-0	1-1½	6-6	132
Bath room.	1	3-0	0-9	6-6	15
Verandah room.	1	4-0	0-9	6-6	20
Door small	2	2-6	0-9	6-0	22
Window big.	6	3-0	1-1½	4-0	81
"	2	3-0	0-9	4-0	18
"	2	2-6	0-9	3-6	13
Ventilator at bath room.	1	2-6	0-9	1-6	3
Brick Jali work.	1	3-0	0-9	3-0	7
Shelves. ...	2	2-6	0-9	3-0	11
Cup board. ...	1	3-0	0-9	4-0	9
Lintal over doors and windows as in item 5. ...					41
				Total	372
				Net total ...	3277 or 3300.

Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1:3.

Lintal over dress.	6	4-6	1-1½	0-6	15.19
" Windows.	6	4-6	1-1	0-5	12.66
" " Stores.	1	4-6	0-9	0-5	1.41
-do- Verandah sides.	2	4-0	0-9	0-5	2.50
" Bath room door.	1	4-6	0-9	0-5	1.41
-do- Yard and Latrine.	2	4-0	0-9	0-5	2.50
" Ventilators	1	4-0	0-9	0-5	1.25
over shelves.	2	4-0	0-9	0-5	2.50
" Cup Board.	1	4-6	0-9	0-5	1.41
				Total.	40.83 or 41 c. ft.

Country wood Wrought and put up wall plate:-

ridge at Centre.	1	26-7½	0-4"	0-3"	2.22
front and rear.	2	26-7½	0-3"	0-3"	3.33
front Varandah.	1	13-9	0-6	0-4	1.15
Rear varandah.	2	7-6	0-6	0-4"	1.25
1 plate for bath room.	1	10-6	0-3"	0-3"	0.66
-do- Stores,	1	11-6	0-3"	0-3"	0.72
lin bed room & hall	1	26-7½	0-4"	0-7"	5-18
" Kitchen & dining room.	1	26-7½	0-4"	0-6"	4.44
Tars - front varandah	8	9-4	0-2	0-4	4.15
bed and hall	8	15-9	0-2	0-4	6.11
	6	15-3	0-2	0-4	5.08
Kitchen and Dining room.	14	26-7½	10-4" 0-2"	0-4	8.02
[illegible] length.	3	1-6	0-2	0-4	0.25
bed Varandah.	4	6-6	0-2	0-3	1.08
over [illegible]	25	10-2"	0-2"	0-4"	7.34
[illegible] for joints.					2.02
					53.00 or 53 c.ft.

(1)	(2)	(3)	(4)	(5)	(6)
7~~8~~. Country wood door framed and planked andetc. 4'-0" X 6-6"	1				
			Total.	1	1
8~~9~~. -do- ledged braced and planked and etc. 3-0 x 6-6"	7				
			Total	7	7
9~~10~~. -do- 2-6 X 6-0	2				
			Total.	2	2
10~~11~~. Country wood windows ledged braced and planked etc. 3x4	8				
			Total	8	8
11~~12~~ -do- ~~Swing ventilators~~ 2-6" X 3-6"	2			2	2
~~13~~. -do- Swing Ventilator 2-6" X 1-6"	1			1	1
13~~14~~. Best tiled roofing with mangalore tiles including country wood reapers 2" X 1"					
Roofing front. ..	1	25-7½	14-3	379	
over front varandah.	1	14-0	6-9	95	
Rear portion. ...	1	26-7½	18-6	493	
Rear varandah. ...	1	6-6	5-0	33	
		Total.		1000	
Deductions:-- Opening over ~~platform~~	1				
plat form.....	1	4-4½	7-6	33	
		Net total ...		967	
				970	
14~~15~~. Flooring with concrete broken Stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1:3" thick.					
Front varandah.		9-7½	4-10½	47	
Hall		10-7½	9-7	102	
Bed room		9-7	9-7½	92	
Dining room		10-7½	6-7	70	
Kitchen		9-7	6-7½	64	
Bath room		6-7½	5-7½	37	
Stores		7-7½	5-7½	43	
Rear platform		6-0	2-8½	16	
Latrine		6-7½	3-7½	20	
		Total.		491	
				500	

P. T. O.

(1)	(2)	(3)	(4)	(5)	(6)
~~16.~~ Plastering with lime mortar 1 coat ½" thick 1:2 and white washing 2 coats.					
Front Varandah inside.	1	10-0		7-0	70
rear	1	10-0		9-6	95
sides	2	5-3		~~9 5~~ $\frac{9\frac{1}{2}+7}{2}$	87
Inside wall front	1	11-0		10-0	110
" rear	1	11-0		15-0	165
Inside wall sides	2	10-0		$\frac{15\ 10}{2}$	250
Bed room front.	1	10-0		10-0	100
rear	1	10-0		15-0	150
Sides	2	10-0		$\frac{15\ 10}{2}$	250
Dining room	1	11-0		15-0	165
rear	1	11-0		11-6	127
Sides.	2	7-0		$\frac{11\frac{1}{2}\ 15}{2}$	186
Kitchen front.					
Kitchen front.	1	10-0		15-0	150
rear	1	10-0		11-6	115
Sides.	2	7-0		$\frac{15\ 11\frac{1}{2}}{2}$	186
Store room front.	1	8-0		11-0	88
rear	1	8-0		8-0	64
sides.	2	6-0		$\frac{11\ 8}{2}$	114
Bath room front.	1	7-0		11-0	77
rear	1	7-0		8-0	56
sides	2	6-0		$\frac{11\ 8}{2}$	114
Out Side.					
Wall front varandah	1	11-6		6-6	75
Sides.	2	6-0		$\frac{9\ 6\frac{1}{2}}{2}$	96
Portion of wall of main building	1	12-10½		9-6	122
Main building Side rectangular portion. ...	2	37-1½		7-6	407
Trapizoidal portion	2	$\frac{27-1\frac{1}{2}\ 2}{2}$		2-0	100
Triangular portion	2	23/2		5-9	132
plat form near wall	1	6-4½		11-0	70
-d o- sides	2	6-9		$\frac{11\ 7}{2}$	125
Bath room nearwall out side	1	7-9		7-6	58
" store	1	8-9		7-6	66
Latrine walls all round	1	23-0	14-9		339
Compund wall ...	1	31-1½	12-9		397
Basement. Main building 3 sides.	1	92-9		1-9	161
Compound wall 3 sides.	1	46-7½		1-3	58
Compound wall inside.- Basement	1	42-10½		1-3	57
Sides of store and bath	2	2-11½		1-9	10
[illegible]	1	8-9		1-9	15
[illegible]	1	7-9		1-9	14
[illegible] front.	2	0-5		5-6	~~2~~ 5
[illegible] rear	2	0-9		5-6	62
[illegible] top of bath room	1	16-0	0-5		7
				Carried over.	5095

(1)	(2)	(3)	(4)	(5)	(6)
		B/F.			5095
Latrine door.	1	14-6	0-5"		6
Yard door	1	14-6	0-9½		11
Windows.	6	11-0	0-10½		58
"	2	11-0	0-6		11
-do- sides of varandah	2	9-6	0-6"		10
Ventilators	1	3-6	0-6		2
Shelves sides & top	2	8-6	0-9		13
Cup board	1	11-0	0-9		8
Intradox of arches.	6	3-3	0-9½		15
				Total	5230
Deduct for:-					
Door front.	2	4-0	6-6	6-6	52
Other doors	2 x 7	3-0	6-6	6-6	273
Latrine and yard doors	2 x 2	2-6	6-0	6-0	60
Windows.	2 x 8	3-0	4-0	4-0	192
"	2 x 2	2-6	3-6	3-6	35
Ventilators.	2	2-6		1-6	8
Portion of compound Wall at latrine.	2	0-9		6-0	9
Cement plastering Latrine inside	1	17-6		2-0	35
" Outside.	1	11-0		2-0	22
Basement ...	1	11-0		1-3	14
Bath room inside all round excluding door way.	1	24-6		3-0	14
Brick dali work.	2	3-0		3-0	12
			Total deductions.		792
			Net tota		4438 4450

17. Plastering with Cement mortar 1:3½ thick.

Door sill front varandah	1	4-0	0-3		2
-do- other doors.	6	3-0	0-9		14
do- bath room	1	3-0	0-3		1
Latrine door. ...	1	2-6	0-3		1
Yard door --.	1	2-6	0-9		2
Window sills. ...	6	3-0	0-1		16
"	2	3-0	0-6		3
"	2	2-6	0-6		3
Sills of shelves	2	2-6	0-9		4
Cup Board	1	3-0	0-9		2
Retaining wall of platform.	1	6-4½	1-1½		7
Latrine inside all round	1	20-0		2-(	40
-do- dwarf wall	1	8-0	2-0		16
Latrine outside.	1	11-0		2-(	22
" Basement. ...	1	11-0		1-3	14
Bath room all round inside	1	26-0		3-(	78
Steps front.	1	4-0	3-6		14
Sides.	2	2-0		1-(	4
Rear	1	4-0	2-0		8
Sides.	2	1-0		0-9	2
				Total	253

(1)	(2)	(3)	(4)	(5)	(6)
Deduct for: Door bath room.	1	3-0		3-0	9
Latrine.	2	2-6		2-0	10
				Total deductions	19
				Net total	234 or 250
18. Painting with gray paint 2 coats for new wood work.					
Door front	1 x 2¼	4-0		6-3	59
Other doors.	7 x 2¼	3-0		6-6	307
" Small	2 x 2¼	2-6		6-0	68
Windows big	8 x 2¼	3-0		4-0	216
" small	2 x 2¼	2-6		3-6	39
Ventilators.	1 x 2¼	2-6		1-6	7
Purlin over hall & bed. room	1	23-0	1-6		35
Kitchen & dining.	1	23-0	1-4		31
Rafters front. ...	8	17-3	0-10"		48
" Bed and hall "	8	12-0	0-10		30
	6	12-6	0-10		38
Kitchen and Dining	14	8-0	0-10		93
Rear Varandah. ...	4	6-6	0-8		17
Bath room and Stores.	13	7-6	0-8		65
Brassumer and purlin and rear varandah ...	2	6-4½	0-10		11
Projection of wall plats.	2	1-3	1-2		3
"	10	1-3	1-0		13
				Total	1160 or 1200
19. Brick Jali Work 9" thick.	1	3		3-0	9
20. Providing Sink.2-6" x 1-6	1			Total	-- 1
Total.	...	...			--- 1
21. Providing 1" thick plank for shelf with wooden brackets 3 No. and cup board.					L.S.
22. Constructing masonry drain etc.					L.S.
23. Cleaning and levelling site & etc.					L.S.

Constructing clerks quarters for Sub-grainage building at Kamakaraf.

ABSTRACT.

Quantity. (1)	Description of work. (2)	S.I.No. (3)	Rate. (4)	Per. (5)	Amount. (6)	Total. (7)
2200 c.ft.	1. Earth work excavation for foundation and etc.in hard soil		15 10 0	1000 c.ft.		34
600 c.ft.	2. Filling in basement with excavated soil in 6" layers watering and consolidating		8 2 0	"		5

P.T.O.

(1)	(2)	(3)	(4)	(5)	(6)
850 c.ft.	3. Concrete broken stone in lime mortar 1st grade stone..	67-10-0		100 c.ft.	575
3300 c.ft.	4. Brick work in lime mortar 1:2.	65 10 0		"	2166
41c.ft.	5. Cut stone 2 lines dressed to size on all faces and fixed in cement mortar.	4 10 0		c.ft.	190
53c.ft.	6. Country wood wrought and put up	13" 3 0		"	699
1 No.	7. Country wood door framed and planked to 4-0 x 6-6"	71 12 0		each.	72
7 "	8. -do-ledged braced & planked and etc. 3-0 x 6-6	54 6 0		"	381
2 "	9. -do- 2-6 x 6-0	41 4 0		"	83
8 No.	10. -do- Windows 3' X 4'	34 8 0		"	276
2 "	11. -do- -do-2-6 x 3-0	26 13 0		"	54
1 No.	12. -do- Ventilators 2-6 x 1-6	10 8 0		"	11
970 Sq.ft.	13. Best tiled roofing with mangalore tiles including Country wood reapers 2 x1"	53- 4 0		100 Sq"ft.	517
500 S.ft.	14.Flooring with concrete broken stone 1½ in lime mortar 4" thick and plastered over with cement mortar 1:3" thick.	33 11 0			168
4450 Sq.ft.	15. Plastering with lime mortar 1 coat ½" thick and white washing 2 coats.	7 2 0		"	317
250 S.ft.	16. -do- cement mortar 1:3" thick	11 2 0		"	28
1200 Sq.ft.	17. Painting with gray paint 2 coats.	7 10 0		"	92
9 S.ft	18. Brick Jali work	52 8 0		"	5
1 No.	19. Providing ~~Sur~~ Sink 2-6 x 1-6	L.S.			6
L.S.	20. Providing 1" thick plank for shelf with 3 no. wooden ~~bra~~ brackets ~~ken~~ and planks to cup board.	L.S.			13
L.S.	21. Constructing masonry drain	L.S.			125
L.S.	22. Cleaning and levelling site etc.	L.S.			

Contingencies and petty Supervision charges

(1)	(2)	(3)	(4)	(5)	(6)	(7)
2200 c.ft.	1. Earth work excavation foundation in hard soi	15	10 0	C.ft. 1000		34
600 c.ft.	2. Filling in basement with excavated soil in 6" layers watering and consolidating.	8	2 0	"		5
850 c.ft.	3. Concrete broken stone lime mortar 1st grade stone.	51	0 0	100		434
3300 c.ft.	4. Brick work in lime mortar.	66	1 0	"		2179
41c.ft.	5. Cut stone 2 lines dressed to size on all faces and fixed in cement mortar. 1:3.	4	4 0	c.ft.		174
53c.ft.	6. Country wood Wrought and put up	12	14 0	"		682
1 No.	7. Country wood door framed and planked & etc.4-0x6-6	70	8 0	each		71
7 No.	8. -do- ~~2x6xxx6x0~~ lodged braced and planked and etc. 3-0 x 6-6 ...	53	6 0	"		374
2 No.	9. -do- 2-6 x 6-0 ...	40	8 0	"		81
8 No.	10. -do- Windows 3 x 4'	33	12 0	"		270
2 No.	11. -do- 2-6 x 3-6	25	4 0	"		51
1 "	12. -do- Swing ventilator 2-6-x 1-6	10	4 0	"		10
970 Sq.ft.	13. Best tiled roofing with Mangalore tiles including Country wood reapers 2"x 1'	48	4 0	Sq.ft. 100		468
500 Sq.ft.	14. Flooring with concrete broken stone in lime mortar 4" thick and plastered over with cement mortar 1:3 thick	27	6 0	"		137

P.T.

4450	15.	Plastering with Lime mortar 1 coat ½" thick - and white washing 2 coats.	7	2	0	Sq.ft. 100		317
250	16.	-do- with cement mortar 1:3 ½" thick. ...	10	6	0	"		26
1200	17.	Painting with gray paint 2 coats.	7	10	0	"		92
9 Sq.ft	18.	Brick Jali work. ...	52	10	0	"		5
1 No.	19.	Providing ~~Sink~~ Sink 2'-6 x 1-6" in kitchen.	L.S.					6
L.S.	20.	Providing 1" thick plank for shelf with 3 no. wood-en ~~brackets~~ brackets and plank for cup board	L.S.					13
L.S.	21.	Constructing masonry drain.	L.S.					125
L.S.	22.	Cleaning and levelling. Site.	L.S.					10
								5564
		Contingencies and petty Supervison Charges. ...						275
								5839
		Add 10% extra being out of the way place.						583
		Total					Rs.	6422 or 6425

10.2.46

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A B S T R A C T.

(1)	(2)	(3)	(4)	(5)	(6)	(7)
2200 c.ft.	1. Earth work excavation formation in hard soil.	15	10 0	C.ft. 1000	34	
600 c.ft.	2. Filling in basement with excavated soil in 6" layers watering and consolidating.	8	2 0		5	
850 c.ft.	3. Concrete broken stone in lime mortar1st grade stone.	58	11 0	C.ft. 100	49	
3300 C.ft.	4. Brick ~~work~~ in lime mortar 1:2.	69	14 0	"	2306	
41.c.ft	5. Cut stone 2 lines dressed to size on all faces and fixed in cement mortar.	4	14 0	"	200	
53 c.ft.	6. Country wood wrought and put up ...	13	5 0	"	706	
1 No.	7. Country wood doorframed and planked & etc.4-0 x6-6.	72	4 0	each	73	
7 No.	8. -do- ledged braced planked and etc. 3-0 x 6-6 ...	54	13 0	"	384	
2 "	& 9. -do- 2-6-x 6-0 ...	42	8 0	"	85	
8 No.	10. -do-windows 3' x 4'	34	12 0	"	278	
2 "	11. -do- -do- 2-6 x 3-6	27	0 0	"	54	
1 No.	12. -do- swing ventilator 2-0 x 1-6 ...	10	8 0	"	11	
970 S.ft.	13. Best tiled roofing with Mangalore tiles including country wood reapers 3x1	55	2 0	S.ft. 100	535	

P.T.O.

500 sq.ft.	14. Flooring with concrete ~~xx~~ broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1:3 ½" thick.	31	7	0	Sq.ft. 100		157
4450 S.ft.	15. Plastering with lime mortar 1 coat ½" thick and white washing 2 coats.	6	15	0	"		309
200 Sq.ft.	16. -do- with cement mortar 1:3 ½" thick ...	11	9	0	"		29
1200 Sft	17. Painting with gray paint 2 coat.	7	10	0	"		92
9 Sq.ft.	18. Brick Jali Work.	54	2	0	"		5
1 No.	19. Providing ~~Suit~~ Sink 2-6x1-6				L.S.		6
L.S .	20. Providing 1" thick shelf plank with 3no. wooden bracket and planked cup board.				L.S.		13
L.S.	21. Constructing masonry drain.				L.S.		125
L.S.	22. Clearing and levelling ~~xkkx~~ site.				L.S.		19
							5917
	Contingencies and petty Supervision Charges. ...						293
							6210
	Add 10% extra being the out of the place.						620
							6830

Total Rs 6830/-

ESTIMATE DETAILED MEASUREMENT SHEET.

Name of work: Construction of Operative quarters for [illegible] grainage buildings at Kamagerai. Kunthur and Hanoor.

Description.	Number.	Measurement in feet Length.	Breadth.	Depth.	Area or contents	Total
(1)	(2)	(3)	(4)	(5)	(7)	
One Block of 2 orerative quarters.						
1. Earth Work excavation foundation etc. in hard soil.						
Foundation: Main Walls all round	1	97-0	3-0	3-0	873	
	1	27-3	3-0	3-0	245	
Crosswall between two front rooms ..	1	8-1½	3-0	3-0	73	
-do- Kitchen	1	4-1½	3-0	3-0	37	
Front Verandah retaining wall 3 sides ..	1	37-7½	2-6	2-6	235	
-do- Cross walls ..	1	2-3	2-6	2-6	14	
Bath room walls 3 sides	2	17-7½	2-6	2-6	220	
Rear platform retaing wall	2	4-0¾	2-6	2-6	51	
Latrine walls 2 sides ..	2	9-0	2-6	2-6	113	
Compound wall 3 sides ..	1	50-1½	2-6	2-6	313	
-do- Cross wall ..	1	14-2¼	2-6	2-6	89	
Steps front ..	2	4-6	1-9¾	0-6	8	
Rear ..	2	4-6	0-9¾	0-6	4	
				Total	2275	or 2300
2. Concrete broken stones in lime mortar 1st grade stones.						
Foundation:- Main walls all round	1	97-0	3-0	1-0	291	
Middle wall	1.	27-3	3-0	1-0	82	
Cross wall between 2 rooms	1	8-1½	3-0	1-0	24	
-do- Kitchen	1	4-1½	3-0	1-0	12	
Verandah retaining wall 3 sides	1	37-7½	2-6	0-6	47	
-do-	1	38-9	2-6	0-6	48	
-do- Cross wall ..	1	2-3	2-6	0-6	3	
-do-	1	2-9¾	2-6	0-6	3	
Bath room Walls 3 sides	2	17-7½	2-6	0-6	44	
-do-	2	18-9	2-6	0-6	47	
Rear platform retaing wall	2	4-0¾	2-6	1-0	20	
Latrine walls 2 sides	2	9-0	2-6	1-0	45	
Compound wall 3 sides ..	1	50-1½	2-6	0-6	63	
d-o- ..	1	51-1½	2-6	0-6	64	
=de- cross walls ..	1	14-9	2-6	0-6	18	
Cross wall ..	1	14-9	2-6	0-6	18	
Steps front ..	2	4-6	2-6	0-6	11	
,, rear ..	2	4-6	1-6	0-6	7	
				Total	847	or 850
3. Country bricks with lime mortar.						
Foundation: 1st footing.						
Main walls around	1	97-0	1-10½	1-6	273	
Middle wall	1	28-4½	1-10½	1-6	80	
Crosswall between 2 main rooms,	1	9-3	1-10½	1-6	26	
-de- Kitchens	1	5-3	1-10½	1-6	15	
Verandah retaining wall 3 sides	1	38-9	1-6	1-0	58	
-do- Cross wall	1	3-3¾	1-6	1-0	5	
Bath room walls 3 sides	2	18-9	1-6	1-0	56	
Rear platform retaining wall	2	5-0¾	1-6	1-0	15	
Latrine wall 2 sides ..	2	10-0	1-6	1-0	30	
Compound wall 3 sides ..	1	51-1½	1-6	1-0	77	
-do- Cross wall	1	15-3	1-6	1-0	23	
Foundation 2nd footing and basement.						

p.t.o.

(1)	(2)	(3)	(4)	(5)	(6)
Main walls around ..	1	97-0	1-6	2-0	291
Middle wall ..	1	28-9	1-6	2-0	85
Cross walls of main rooms	1	9-7½	1-6	2-0	29
-do- Kitchen ..	1	5-7½	1-6	2-0	17
Verandah retaining wall 3 sides	1	39-1½	1-0½	2-0	88
-do- Cross wall	1	3-8¼	1-1½	2-0	8
Bath room wall 3 sides	2	19-1½	1-1½	2-0	85
Rear plateform retaing wall	2	5-5¼	1-1½	1-6	18
Latrine wall 2 sides	1	10-4½	1-1½	1-6	18
Compound wall 3 sides	1	51-6	1-1½	1-6	106
-do- Cross wall	1	15-7½	1-1½	1-6	26
Steps front ..	2	3-6	2-0	0-6	7
-do- ..	2	3-6	1-0	0-6	4
-do- rear ..	2	3-6	1-0	0-6	4
Superstructure Main walls front	1	31-4½	1-1½	10-0	353
Rear wall	1	31-4½	1-1½	12-0	424
Middle wall	1	31-4½	1-1½	15-6	547
Cross wall between kitchen	3	6-0	1-1½	15½+12/2	279
-do- between living room	3	10-0	1-0½	15½+10/2	429
-do- Front Verandah	3	5-0	0-9	9½+7/2	93
Bath room wall rear ..	2	9-6	0-9	8-9	125
Bath room wall sides	2x2	5-0	0-9	11¾+9/2	156
Latrine walls all round	2	23-0	0-9	7-0	242
Dwarfwall at Latrine	2	8-0	1-1½	1-0	18
Portion of compound wall between bath room & latrine	2	5-6	0-9	1-0	850
Compound wall rear side	1	16-4½	0-9	6-0	74
-do- cross wall	1	16-0	0-9	6-0	72
Triangular portion between platform, over compound wall	1	4-6	0-9	3-6	8
Extra at yard door ..	2	4-9	0-4½	6-0	21
Coping over yard door	2	4-9	1-1½	1-0	11
			Total		4346
Deductions: Doors ..	6	3-0	1-1½	6-6	132
bath room & latrine door	4	2-6	0-9	6-0	46
Yard door ..	2	2-6	1-1½	6-0	34
Windows ..	6	2-6	1-1½	3-6	59
Ventilators ..	2	2-6	0-9	1-6	6
Wall shelves ..	4	2-6	0-9	3-0	23
Lintal over doors, windows and ventilators as in item 4					43
			.. Total		343
			Net Total		4003 or 4010
4. Cut stone 2 lines dressed to size on all faces and fixed in cement mortar 1:3.					
Lintal over doors ..	6	4-6	1-1½	0-6	15.19
,, yard door ..	2	4-0	1-1½	0-5	3.78
Bath room door ..	4	4-0	0-9	0-5	5.00
Over windows ..	6	4-0	1-1½	0-5	11.25
Ventilators ..	2	4-0	0-9	0-5	2.50
Over shelves ..	4	4-0	0-9	0-5	5.00
				Total	42.72 or 43
5. Cut stone base stones 7" x 7" x 5" neatly dressed to size on all faces and fixed in cement mortar					
-do-	2			2	2 2
				Total	2 2

(1)	(2)	(3)	(4)	(5)	(6)	(7)
6. Cut stone Cornice stones as above 1-9" x 0.6" x 0.9"	2				2	
					--	2
7. Country wood door ledged braced and planted etc. 3-0 x 6-6	6				6	
					--	6
8. -do- -do- 2-6 x 6=0	6				6	
					--	6
9. -do- ~~Window~~ 2-6 x 3-6	6				6	
					--	6
10. -do- Ventilator 2.6 x 1-6 with double leaves.	2				2	
					--	
11. Country wood wrought and put up.						
Wall plate over middle wall	1	33-10½	0-3"	0-4"	2.82	
" front and rear	2	33-10½	0-4	0-3	5.65	
over bath room	2	12-0	0-4	0-3	2-00	
Purlin over room	1	33-10½	0.5	0-8	9.41	
Bressummer front Verandah	1	33-10½	0-4	0-5	4.70	
Rear over platform	2x2	6-9	0-3	0-4	2.26	
Common rafters over ~~platform~~	16	13-0	0-2	0-4	11.56	
front verandah	16	8-0	0-2	0-4	7.11	
rear room	12	8-8	0-2	0-4	5.78	
-do-	6	10-4	0-2	0-4	2.58	
Over bath room	2x4	9-3	0-2	0-4	4.06	
Over platform	2x3	5-6	0-2	0-3	1. 8	
Piller ~~posts~~	2	0-4	0-4	6-1	1.36	
Check pieces	2x2	1-3	0.4"	0-1½	0.21	
Add for joints					.63	

				Total ..	61.50 or 62	
					----	
12. Best tiled roofing with Mangalore tiles including C.W. reepers 2" x 1"						
Roofing front	1	33-10½	~~20x10~~	20-0	678	
" rear	1	33-10½		16-9	567	
Over platform	1	5-9¾		5-6	32	

				Total	1277	

Deduct: Portion over platform	1	9-10½		6-6	64	

			Net Total		1213 or 1220	
					----	
13. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1:3 ¼" thick.						
Rooms	2	13-7½	9-7½		262	
Kitchen	2	13-7½	5-7½		153	
Front Verandah	2	14-0	3-8½		103	
Bath room	2	7-7½	4-7½		71	
Platform	2	5-5½	2-2½		24	
Latrine	2	5-7½	3-7½		41	

				Total	654 or 660	
					----	
14. Plastering with lime mortar 1 coat ½" thick including white washing 2 coats.						
Front Verandah wall	2	14-6¾		9-6	277	
-do- Cross & side walls	6	5-0	~~2x2x2~~	9½+7/2	248	
Bath room from wall inside	2	14-0		10-3	287	
Rear wall	2	14-0		15-6	434	
	2	14-0		15½+10½/2	51	

(1)	(2)	(3)	(4)	(5)	(6)
Kitchen front wall ..	2	14-0		15-6	434
,, rear wall	2	14-0		12-0	336
Bath room front wall	2	8-0		11-6	184
,, rear	2	8-0		9-0	144
Sides ..	2x2	5-0		11½+9/2	205
Outside bath room ..	2	5-9		11½+8½/2	115
Sides ..	2	3-6		12-0+7/2	67
,, Platform ..	2	5-9		12-0	138
Latrine walls allround	2	23-0	14-9		679
Outside - Sides ..	2	16-8¼		7+15¼/2	380
-do- ..	2	13-5¼		~~15-3+½/2~~ 15¼+5½/2	326
Allround Compound wall portion between Latrine and bath room ..	2	5-6	12-9		140
rear side ..	2	7-9¼	12-9		199
-do- middle wall ..	1	12-6	12-9		159
Inside basement ..	2	48-3		1-0(a)	97
Basement sides ..	2	30-3		2-0	121
-do- compound one side	1	53-9		1-0(a)	54
Sides and top of door-	6	16-0	0-3½		76
-do- Small ..	2	14-6	0-9½		22
-do- bath room ..	2	14-6	0-5		12
Windows 3 sides ..	6	9-6	0-10½		50
-do- Ventilator ..	2	5-6	0-6		6
Shelves 3 sides ..	2x2	8-6	0-9		26
Extra over compound wall door	2	4-9	0-4½		3
Extra for pillars ..	2x2	0-4½		3-0	9
				Total	5743
Deductions:- Doors ..	2x6	3-0		~~2-6~~	236
-do-	2x3	2-6		6-0	90
Windows	2x6	2-6		3-6	105
Ventilators	2x2	2-6		1-6	15
Cement plastering - Latrine excluding door way inside	1	18-6		2-0	37
-do- Bath room		24-6		3-0	74
				Total .. .	555
				Net Total	5188 or 5200

15. Plastering with cement mortar 1:3, ½" thick

Top verandah retaining wall	2	14-6¾	1-1½		33
,, rear platform	2	5-9	1-1½		13
Door sills ..	6	3-0	0-9½		14
2nd door Bath room door ..	2	2-6	0-~~5~~ 9½		4
Windows ..	6	2-6	0-10½		13
Ventilators ..	2	2-6	0-6		3
Shelves ..	4	2-6	0-9		8
Latrine inside ..	2	20-0		2-0	80
,, Dwarf wall facing outside	2	5-9		1-0	12
,, outside	2	8-0		1-0	16
Bath room ..	2	26-0		3-0	156
Steps front	2	3-6	2-0		14
Sides ..	2x2	1-0		1-3	5
Rear ..	2	3-6	1-0		7
Sides ..	2	1-0		0-6	1
Basement front ..	1	31-9		2-0	64
rear ..	2	5-9		1-6	17
				Total	463
Deductions:- Door bathroom	2	2-6	2x6	3-0	15
,, latrine	2	2-6		2-0	10
				Total	25
				Net Total	438 or 450

16 Painting with gray paint 2 coats.

Doors ..	6x2¼	3-0		6-6	263
Doors small ..	6x2¼	2-6		6-0	203
Windows ..	3x2¼	2-6		3-6	118
Ventilator ..	2x2¼	2-6		1-6	17
Dressumer over Verandah.	1	35-10½	1-3		51
-do- rearwall portion over platform	2	5-9¾	0-7		8
Purlin ..	1	51-6	1-9		85
Dressumer over platform	2	5-9	1-2		14
Common rafters ..	16	11-3	0-10		50
,, Verandah ..	16	7-9	0-10		93
rear room ..	12	6-9	0-10		68
,, ..	6	8-0	0-10	40	40
,, bath room ..	8	7-0	0-10		47
,, over platform ..	6	5-6	0-8		22
Projection of wall plates	10	1-3	1-2		15
Purlin ..	2	1-3	2		5
Pillars ..	2	1-4		6-1	16
				Total	1185 or 1200

17. Providing 1" thick plank for wall shelves including ~~taying~~ tarring and fixing — L.S.

18. Providing shelve planks 1-6" x 1½" with 3 No. wooden brackes including ~~taking~~ tarring and fixing .. — L.S.

19. Providing cut stone pials in the front Verandah .. — L.S.

20. Providing fire place and flues in Kitchen and bath rooms — L.S.

21. Constructing masonry drain etc. — L.S.

22. Levelling and clearing site — L.S.

23. Filling in basement with excavated earth .. — L.S.

"Abstract of Estimate."

Name of work:-Construction of operative quarter for the Sub-grainage buildings at Kanagarai.

Quantity. (1)	Description of work S.I.No. (2) (3)	Rate. (4)	Per. (5)	Amount (6)	Total. (7)
	One block of 2 operative quarters.				
2300 c.ft.	1. Earth work excavation, foundation etc. in hard soil ..	15-10 0	100c.ft.	36	
850 ,,	2. Concrete broken stone in lime mortar 1st grade stone	67 10 0	100c/f.	575	
4010 ,,	3. Country bricks with lime mortar	65 10 0		2632	
66 FT.	Cut stone two lines dressed to size on all faces & fixed in cement mortar 1:3	4 10 0	one c.ft.	199	
2 No.	5. Cut stone base stone 7" x 7" x 5" neatly dressed to size on all faces and fixed in cement mortar	2 8-0	each		

2 No.	6.	cut stone corbels as above 1-9" x 0.0" x 0.9"	2 8 0	each	3
6 No.	7.	country wood doors 2 panel braced and planked etc. 2'-3 x 6-3"	54 6 0	each	326
6 No.	8.	-do- 2'-6" x 6-0	41 4 0	"	248
6 No.	9.	-do- inside 2'-6 x 3-6	26 15 0	"	161
2 No.	10.	-do- ventilators with moulded bars 2-3" x 1-3	10 2 0	"	21
62.c.ft.	11.	country wood partitions nut bun	13 2 0	c.ft	816
1230 sq.ft.	12.	Best tile roofing with Mangalore tiles including country wood battens 3" x 1½	4 0	100 sq.ft.	650
660 sq.ft.	13.	Flooring with concrete 1:2:4 breaking stone 1½" in 1 mortar 4" thick and plastering 1:3 cement mortar 1" thick.	11 9	"	2
8200 sq.ft.	14.	Flooring with 1:2:4 mortar 1" thick including cost of glazing etc.	7 2 0	"	571
450 sq.ft.	15.	-do- with cement mortar 1:3 1" thick.	11 2 0	"	50
1200 sq.ft.	16.	Painting with 3 coats.	7 10 0	"	92
L. S.	17.	providing x 1" thick plain for wall shelves including painting and fixing etc.	L.S.		30
L.S.	18.	Providing wood planing 1-3" x 1" with 3 rows wooden brackets including painting and fixing etc.	L.S.		70
L.S.	19.	Providing cut stone mural in the front verandah	L.S.		50
L.S.	20.	Providing fire places and flues in kitchen and bath rooms.	L.S.		20
L.S.	21.	Constructing masonry drain etc.	L.S.		100
L.S.	22.	Levelling and clearing site etc.	L.S.		10
					3633
		Contingencies and petty supervision charges.			201
					7027

2.	3.	4	5.	6..	7.
	B/F.			7037	
	Add 10% being cost of plinth			703	
				7740	
	Filling basement with excavated earth ...			7 8 0	
				7737 8 0	
	Total for 1 block of 1 qrs. for 2 blocks.			15475 0 0	

Abstract of Estimate

Name of work.-- Construction of operative quarters for the [illegible] Children at Ranchi.

Quantity. (1)	Description of work. (2)	No. (3)	Length. (4)	Breadth. (5)	Height. (6)	Unit. (7)	Total.
	One block of 2 operative quarters.						
3500 s.ft.	1. Earth Work excavation, [illegible] soil,	15	17 0	100		c.ft.	30
850 s.ft.	2. Concrete [illegible] in the north [illegible]	31	0 0	100	c.ft.		1404
1010 s.ft.	3. [illegible] north.	26	1 0				3349
13 c.ft.	4. [illegible] in cement mortar 1:2.	4	4 0		c.ft.		156
5 No.	5. [illegible] in cement mortar.	4	5 0				5
6 No.	6. [illegible] 1'-0" x 0'-6" x 0'-9"	2	8 0		"		5
No.	7. [illegible] 3'-0 x 6'-0"	4	6 0				3330
No.	8. [illegible] 3'-3" x 3'-0" [illegible]	40	8 0				342
No.	9. [illegible] 2'-6" x 3'-0"	25	4 0				152
No.	10. Country wood ventilator with double leaves 2'-6" x 1'-6" ...	10	4 0				21
	[illegible]	12	14 0				798
	[illegible] roofing with Mangalore tiles including country wood rafters 2"x 1"	48	4 0				[illegible]

1.	2.	3.	4.	5.	6.	7.
	-ken stone 1½" in lime mortar 4" thic and plastered over with cement mortar 1:3½" thick.	27	6 0	100 sq.ft.		181
5200 sq-ft.	14. Plastering with lime mortar 1 coat ½" thick including white washing 2 coats.	7	2 0			371
450 sq.ft.	15. Plastering with cement mortar 1:3½" thick	10	6 0			47
1200 sq.ft.	16. Painting with grey paint 2 coats. ...	7	10 0			92
L.S.	17. Providing 1" thick plank for wall helves including taking and fixing & etc,			L.S.		30
L.S.	18. Providing shelf planks 1-3" x 1½" with 3 wooden brackets including taking and fixing & etc.			L.S.		70
L.S.	19. Providing cut stone payals in the front varandha			L.S.		50
L.S.	20. Providing fire place and sinks in kitchen and bath room.			L.S.		25
L.S.	21. Constructing masonry drain.			L.S.		100
L.S.	22. Levelling and cleaning site etc.			L.S.		10
						6411
	Contingencies and petty Supervision charges.					320
						6731
L.S.	23. Filling basement with excavated earth.					6
	Add 10% being out of place.					673
	Total for 1 block of 2 quarters.					7410
	Total for two blocks.....			.....		14820/-

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"ABSTRACT OF ESTIMATE"

Name of work:- Construction of operative quarters for the Sub-Drainage building at Hamur.

Quantity. (1)	Description of work. (2)	S.I.No. (3)	Rate. (4)	Per (5)	Amount. (6)
2300 c.ft.	1. Earth work excavation, foundation etc. in hard soil. ...			1000 c.ft.	
	2. Concrete broken stone 1½ [illegible]			100	

1.	2.	3.	4.	5.	6.	7.
4010 s.ft.	Country brick work in lime mortar. ...	60	14 0	100c.ft.		3602
63c.ft.	4. Cut stone two lines throated to rake on all faces and fixed in cement mortar 1:3. ...	4	14 0			210
2 No.	5. Cut stone base stone 7" x 7" x 8" neatly pointed to rake on all faces and fixed in cement mortar.	2	5 0	each		5
2 No.	6. Cut stone corbel stones as above 1-3" x 0-6" x 0-3"	2	3 0			6
8 No.	7. Country wood [illegible] braced and planked and etc. 3-0 x 6'-0" ...	64	10 0			229
6 No.	8. [illegible]-6" x 6-0 ...	62	5 0			255
6 No.	9. [illegible] 3-6" x 6-6	27	0 0			162
2 No.	10. Country wood [illegible] ventilators with [illegible] leaves 3-6" x 1-6"	10	8 0			21
62c.ft.	11. Country wood [illegible] and fixed no. ...	13	7	one c/ft		825
1220 sq.ft.	12. Best oil [illegible] painting with many coats [illegible] including country wood framework [illegible]			100 sq.ft.		673
5 s.ft.	13. Flooring [illegible] prepared x broad [illegible] 1½" in lime mortar 4" thick and pointed and [illegible] with cement 1:3 mortar [illegible] thick.	31	7 0			97
[illegible] 14.	Plastering 4th [illegible] mortar 1 coat [illegible] including [illegible] 2 coats. ...	6	15 0			361

P.T.O

1.	2.	3.	4.	5.	6.
150 Sq. ft.	15. Plastering with cement mortar 1:3 ½" thick.		11 9 0	100 sq.f	[illegible]
1200 Sq.ft.	16. Painting with grey paint 2 coats.		7 10 0		[illegible]
L.S.	17. Providing 1" thick planks for wall shelves including turning and fixing & etc.		L.S.		[illegible] 30
L.S.	18. Providing Shelf plank 1-3/4" x 1½" with 2 rows wooden brackets including turning and fixing & etc.		L.S.		[illegible] 70
L.S.	19. Providing cut stone pavi in the front verandha.		L.S.		[illegible] 50
L.S.	20. Providing fire places and grate in kitchen and bath rooms. ...		L.S.		[illegible] 21
L.S.	21. Construction of masonry drain etc. ...		L.S.		100
L.S.	22. Levelling and clearing site and etc. ...		L.S.		10
					6819
	Contingencies and wall/ ... Water charges.				345
					7164
L.S.	23. Filling in basement with excavated earth.				7
					7171
	Add 10% being cut for ...				716
	Total for 1 block of quarters.				7887
	For 2 blocks.				15774

Jam 14.2.46

Estimate Detailed Measurement Sheet.

Name of work:--Constructing watchman's quarters to the ~~Silk~~ Sub-Drainage at Kamagarai Kunnthur and Hanoor.

Details of work.	No.	Measurement in Feet. Length ft. in.	Breadth. ft. in.	Depth. ft. in.	Area or contents	Tot
1. Earth work excavation foundation etc in hard soil.						
Main walls all round	1	44-6	2-6	3-0	334	
Verandah retaining wall three sides.	1	19-4½	2-0	3-0	116	
Kitchen wall 3 sides	1	23-10½	2-0	3-0	143	
Yard wall	1	38-6	2-0	3-0	231	
Extra at door portion	1	5-9	0-4½	3-0	6	
Step portion	2	4-6	0-8½	0-6	3	
				Total	833 or900	
2. Concrete broken stone in lime mortar 1st grade stones.						
Main walls all round	1	44-6	2-6	1-0	111	
Verandah retaining wall three sides.	1	19-4½	2-0	1-0	39	
Kitchen wall	1	23-10½	2-0	1-0	48	
Yard wall	1	38-6	2-0	1-0	77	
Extra at Door portion	1	5-9	0-4½	0-6	1	
Steps front & rear	2	4-6	1-6	0-6	7	
				Total	283 or300	
3. Brick work in lime mortar with country bricks.						
Foundation:--						
Main wall all round.	1	44-6	1-6	2-0	134	
Verandah retaining wall 3 sides	1	20-4½	1-1½	2-0	46	
Rear side kitchen wall	1	24-10½	1-1½	2-0	56	
Yard walls	1	39-4½	1-1½	2-0	89	
Basement:--						
Main walls all round.	1	44-6	1-1½	1-6	75	
Verandah retainingwall	1	20-9	0-9	1-3	19	
Rear Kitchen wall	1	25-3	0-9	1-3	24	
Steps.	2	3-6	1-0	0-6	4	
Superstructure.						
Main walls front.	1	14-3	1-1½	9-8½	156	
"	1	14-3	1-1½	11-2½	180	
Side walls	2	8-0	1-1½	10-1	182	
Partial portion	2	8 + 5½/2	1-1½	1-11	12	
Walls of verandah.	2	4-0	0-9	9-7 + 6-11/2	50	
" of kitchen	2	5-6	0-9	11-1 + 7-5/2	76	
" of kitchen	1	14-3	0-9	7-2	77	
Wall 3 sides.	1	39-9	0-9	6-0	179	
Wall compound						
"	1	4-6	0-4½	6-0	10	
"	1	4-9	1-1½	1-0	5	
					1397 1374	
Wall--door.	2	3-0	1-1½	6-6	44	
" do	1	3-0	0-9	7-2	16	
" Yard door.	1	2-6	1-1½	6-0		
Arches in kitchen	1	2-6	0-9	3-(		
Stone lintals as in item 4.-						

:t total

Estimate Detailed Measurement Sheet.

Name of work:--Constructing watchman's quarters to the ~~Silk~~ Sub-Grainage at Kamagarai, Kunnthur and Hanoor.

Details of work.	No.	Measurement in Feet. Length ft. in.	Breadth. ft. in.	Depth. ft. in.	Area or contents	Tot
1. Earth work excavation foundation ~~etc~~ in hard soil.						
Main walls all round	1	44-6	2-6	3-0	334	
Verandah retaining wall three sides.	1	19-4½	2-0	3-0	116	
Kitchen wall 3 sides	1	23-10½	2-0	3-0	142	
Yard wall	1	38-6	2-0	3-0	231	
Extra at door portion	1	5-9	0-4½	3-0	6	
Step portion	2	4-6	0-8½	0-6	3	cft
				Total	833 or900	
2. Concrete broken stone in lime mortar 1st grade stones.						
Main walls all round	1	44-6	2-6	1-0	111	
~~Main walls all round~~						
Verandah retaining wall three sides.	1	19-4½	2-0	1-0	39	
Kitchen wall	1	23-10½	2-0	1-0	48	
Yard wall	1	38-6	2-0	1-0	77	
Extra at Door portion	1	5-9	0-4½	0-6	1	
Steps front & rear	2	4-6	1-6	0-6	7	cft
				Total	283 or300	
3. Brick work in lime mortar with country bricks.						
Foundation:--						
Main wall all round.	1	44-6	1-6	2-0	134	
Verandah retaining wall 3 sides	1	20-4½	1-1½	2-0	46	
Rear side kitchen wall	1	24-10½	1-1½	2-0	56	
Yard wall	1	39-4½	1-1½	2-0	89	
Basement:--						
Main walls all round.	1	44-6	1-1½	1-6	75	
Verandah retainingwall	1	20-9	0-9	1-3	19	
Rear Kitchen wall	1	25-3	0-9	1-3	24	
Steps.	2	3-6	1-0	0-6	4	
Superstructure.						
Main walls front.	1	14-3	1-1½	8-8½	156	
Rear.	1	14-3	1-1½	11-2½	180	
do-- side walls	2	8-0	1-1½	10-1	182	
do Trapezoidal portion	2	8 + 5½/2	1-1½	1-11	12	
End walls of verandah.	2	4-0	0-9	9-7 + 6-11/2	50	
Rear Wall of kitchen	2	5-6	0-9	11-1 + 7-5/2	76	
Rear wall of kitchen	1	14-3	0-9	7-2	77	
Open yard wall 3 sides.	1	39-9	0-9	6-0	179	
Extra door at compound wall	1	4-6	0-4½	6-0	10	
Roofing over do	1	4-9	1-1½	1-0	5	
					~~1697~~ 1374	
Deduct for:--door.	2	3-0	1-1½	6-6	44	
do	1	3-0	0-9	7-2	16	
Yard door.	1	2-6	1-1½	6-0	17	
Wall reels in kitchen cut stone lintals as in item 4.	1	2-6	0-9	3-0	6	
					92	
					~~1306 or1332~~	
					1282 or 1301	

4. Cutstone 2 lines dressed to size on all faces and fitted in cement mortar:-

Lintal over door.	2	4-6	1-1½	0-5	4.22
Yard door.	1	4-0	1-1½	0-4	1.50
Window.	1	4-6	1-1½	0-5	2-11
do over wall	1	4-0	0-9	0-4	1.00
			Total.		8.83 or 9 cft.

5. Cutstone Base stone for verandah posts 7" x 7"x 5".

	1				1
				Total.	1

6. Country wood wrought and put up.

Ridge.	1	14-0	0-4	0-8	2.33
Wall plate.	1	14-0	0-4	0-3	1.50
Bressummer	1	14-0	0-4	0-5	1.94
verandah posts	1	0-4	0-4	6-1	0-68
Common rafters	2 x 7	13-9	0-2	0-3	8.02
,, do end	2x 2	3-0	0-2	0-3	0.50
Check pieces	2	1-3	0-4	0-1½	0-10
Add for joints.					0.50
				Total.	17.57 or 18 c.ft.

7. Country wood door ledged braced and planked etc. 3'x6'x6" 3

					3
				Total.	3.

8. Country wood door as above.
2-6"x 6-0" 1

					1
				Total.	1

9. do--Windows. 3' x 4" 1 1

10. do--Ventilators with double leaf
2' 6" x 1'-6 " 1 1

11. Best tiled roofing with mangalore tiles including country wood reepers 2" x 1"

Roofing.	1	14-3	27-6		392 or 400

12. Flooring ~~tiles~~ concrete broken stone. 1½" in lime mortar 4" thick and plastered over with cement mortar 1:3 -1/2" thick.

Main room.	1	12-0	8-0		96
Front Verandah.	1	12-9	3-3		41
Rear Kitchen	1	12-9	5-6		70
					207 or 21

13. Plastering with cement mortar 1: 3 ½" thic

Verandah retaining wall	1	12-9	0-9		10
Faces of do	1	14-3		-3	18
Sides of steps.	2 x2	1-0		-6	2
-do- top	2	3-6	1-0		3
Sides of doors.	2	3-0	0-9½		5
,, ,,	1	3-0	0-5		1
Below door	2	3-0		0-3	2
Rear	1	3-0		1-3	4
Sides of window.	1	3-0	0-10½		2
Ventilator.	1	2-6	0-6		1
Wall faces in kitchen	1	2-6	0-9		2
				Total	54 or 60 S.ft.

14. Plastering with lime mortar 1 coat 1/2" thick, including white washing 2 coats.

Interior front wall	1	12-0	0-1	121
rear	1	12-0	1-7	139
and wall.	2	8-0	0-1	161
Trapizoidal portion.	2	8-5 1/2	1.6	21
Triangular portion.	2	5-9 1/2	-11	11
Kitchen front wall	1	12-9	1-1	141

Rear wall.	1	12-9			7-5	95
Endwalls	2	5-6			11-1/2 x 7-5	102.
Front verandah wal	1	12-9			9-7	122
Endwall	2	4-0			9-7 + 6-11/2	66
Faces	2	0-9			6-11	10
xRear wall of kitchen including basement	1	14-3			8-3	118
Endwalls.	2	20-6			12-3(a)	502
Yard wall interior	1.	40-6			6-0	243
Exterior	1	41-3			6-0	248
Top.	1	39-9	0-9			30
Extra door	1	4-9	0-4½			2
Sides and sofits of door	2	16-0	0-9½			25
Vxxkkxkxxx.	x2	2x3x				
Rear	2	0-5			7-2	7
Yard door.	1	14-6	0-9½			11
Sides and sofits of windows	1	11-0	0-9x10½			10
Ventilator	2	2-3	0-5			2
Wall races in kitchen.	1	8-6	0-9			6
			Total.			2193
Deduct for:-						
Doors.	2x2	3-0			-6	78
"	1x2	3-0			7-3	44
Yard.	1x2	2-6			6-0	30
Window.	1x2	3-0			4-0	24
Ventilator	1x2	2-6			2-3	11
Below Door rear side cement plastering.	1	3-0			0-9	2
			Total.			189
			Net total.			2004 or 2010

Cornice

15. ~~Concrete~~ work with brick masonry including plastering &c. 2 25-3 — Total 51 — 51Rft

16. Wooden plank shelves 1½" thick 8' long and 1'-3" wide supported on 2 "x3" wooden brackets 3' no including taking and fixing etc. 1 — Total. 1

17. Painting with Grey paint 2 coats.

Door.	3x2½	3-0		6-6	132
Yard.	1x2½	2-6		6-0	34
Window.	1x2½	3-0		4-0	27
Ventilator.	1x2½	2-6		1-6	8
Ridge	1	12-0	1-7		19
Bressummer	1	12-0	1-6		18
Verandah posts.	1	1-4		6-1	8
Common rafters	2x7	10-0	0-8		93
Reepers.	2x13	12-0	0-5		130
			Total		469 4'

18. Providing 1" thick shelve plank in kitchen. — L.S.

19. Forming ~~sink~~ the kitchen. 1 — 1 Total 1

20. do--fire place. 1 — 1 total 1.

21. Forming washing platform. 1	Total 1. 1.
22. Providing cut stone ~~payable~~ payal in front verandah.	Total. 1
23. Constructing Masonry drain.	L.S.
24. Cleaning and levelling site	L.S

Ds. 17/11.

A B S T R A C T O F E S T I M A T E.

Name of Work: Construction of Watchman's Quarters to the Sub-grainage Buildings at Kamagarai.

Quantity.	Description of work.	S.I. No.	Rate. Rs. A. P.	Per.	Amount Rs. A. P.	Total. Rs. A. P.
900 C.ft.	1. Earth work excavation foundation and in hard soil etc		15 10 0	1000 C.ft.	14 0 0	
300 C.ft.	2. Concrete broken stone in lime mortar Ist grade stones.		67 10 0	100 C.ft.	203 0 0	
1300 C.ft.	3. Brick work in lime mortar with country bricks.		65 10 0		853 0 0	
9 C.ft.	4. Cutstone 2 lines dressed to size on all faces and fixed in cement mortar.(1:3)		4 10 0		42 0 0	
1 C.ft.	5. Cutstone base stone for Verandah posts 7" x 7" x 5".		2 8 0	each.	3 0 0	
18 C.ft.	6. Country wood wrought and put up.		13 3 0,	C.ft.	237 0 0	
3 No.	7. Country wood door ledged, braced and planked 3'-0" x 6'-6"		54 6 0	each.	163 0 0	
1 No.	8. -do- -do- 2'-6" x 6'-0"		41 4 0	each.	41 0 0	
1 No.	9. -do- -do- Windows 3' x 4'		34 8 0	each.	35 0 0	
1 No.	10. -do- -do- Ventilators with double leaves. 2'-6" x 1'-6"		10 8 0	each.	11 0 0	
400 sq.ft.	11. Best tiled roofing with Mangalore tiles including country wood reepers 2" x 1".		53 4 0	100 sq.ft.	213 0 0	
210 sq.ft.	12. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1 : 3, ½" thick.		33 11 0	100 sq.ft.	71 0 0	
60 sq.ft.	13. Plastering with cement mortar 1 : 3 ½" thick		11 2 0	100 sq.ft.	7 0 0	
2010 sq.ft.	14. Plastering with lime mortar 1 coat ½" thick including white washing 3 coats.		7 2 0	100 sq.ft.	143 0 0	
51 R ft.	15. Concrete work with brick masonry including plastering etc. complete.	LR.1	0 0	r.ft.	51 0 0	
	16. Wooden plank shelves 1½" thick 8' long and 1-3" wide supported with 2" x 3" wooden brackets 3 Nos. including taking and fixing s	L S			25 0	

1	2.	3	4	5	6
		Rs. A. P.		Rs. A. P.	Rs. A. P.
1 No.	10. Country wood Ventilators with double leaves.	10 4 0	each	10 0 0	
400 sqft.	11. Best tiled roofing with mangalore tiles including country wood reepers 2" x 1"	48 4 0	100 sq.ft.	193 0 0	
210 ~~960~~ sq.ft.	12. Flooring tiles concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1: 3 ½" thick.	87 6 0	"	58 0 0	
60 sq.ft.	13. Plastering with cement mortar 1 : 3 ½" thick.	10 6 0	100 sq.ft.	6 0 0	
2210.	14. Plastering with lime mortar 1 coat ½" thick including white washing 2 coats.	7 2 0		143 0 0	
51 R.ft.	15. ~~Concrete mixn~~ Cornice work with brick masonry including plastering etc.,' complete	1 0 0	R.ft.	51 0 0	
1 No.	16. Wooden plank shelve 1½" thick 8' long and 1-3" wide supported with 2"x3" wooden brackets 3 No. including taning and fixing.	L S		25 0 0	
470 sq.ft.	17. Painting with grey paint 2 coats.	7 10 0	100 sq.ft.	36 0 0	
L S	18. Providing 1" thick plank shelve in kitchen.	L S		5 0 0	
1 No.	19. Forming sink in the kitchen	L S		6 0 0	
1 No.	20. -do- Fire place.	L S.		10 0 0	
1 No.	21. Forming washing platform.	L S.		20 0 0	
	22. Providing cutstone payable ~~infront verandah~~.	L S		25 0 0	
	23. Constructing Masonry drain	LS-		100 0 0	
	24. Cleaning and levelling site stone	L S.		10 0 0	
				2,232 0 0	
	Contingencies and petty ~~Expenses~~ Supervision charges.			112 0 0	
				2,344 0 0	
	Add 10% being ~~one~~ out of the saving place.			234 0 0	
				2,578 0 0	
				OR	
				2,600 0 0	

ok/ K.R.

(Sd.) K. R. Mahadevan.
Spl. Supervisor.

A B S T R A C T O F E S T I M A T E.

Name of work: Construction of Watchman's quarters to the Sub-grainage Building at Hanoor.

Quantity.	Desctiption of work.	S. No	Rate. Rs. A. P.	Per	Amount. Rs. A. P.	Total. Rs. A. P.
900 c.ft.	1. Earth work excavation foundation and in hard soil		15 10 0	1000 c.ft.	14 0 0	
300 c.ft.	2. Concrete broken stone in lime mortar Ist grade stones.		58 11 0	100 sq.ft	176 0 0	
1300 c.ft.	3. Brick work in lime mortar with country bricks.		69 14 0	"@x	908 0 0	
9 cft.	4. Cutstone 2 lines dressed to size on all faces and fixed in cement mortar. 1 : 3		4 14 0	c.ft.	44 0 0	
1 No.	5. Cutstone lease stone for Verandah posts 7" x 7" x 5"		2 8 0	each.	3 0 0	
18 c.ft.	6. Country wood wrought and put up.		13 5 0	c.ft.	240 0 0	
3 No.	7. Country wood ledged, braced and planked 3'-0" x 6'-6".		54 13 0	each.	165 0 0	
1 No.	8. -do- -do- 2'-6" x 6'-0"		42 8 0	each.	43 0 0	
1 No.	9. -do- window 3' x 4'		34 12 0	"	35 0 0	
1 "	10. -do- ventilators with double leaves 2'-6" x 1-6"		10 8 0	"	11 0 0	
400 sq.ft.	11. Best tiled roofing with mangalore tiles including country wood reepers 2" x 1".		~~55~~ 2 - 0 ~~58 4 0~~	100 sq.ft.	221 0 0	
210 sq.ft.	12. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1 : 3 ½" thick.		31 2 0	"	65 0 0	
60 sq ft.	13. Plastering with cement mortar 1 : 3 ½" thick.		11 9 0	"	7 0 0	
2010 sq.ft.	14. Plastering with lime mortar 1 coat ½" thick and ~~including~~ white washing 2 coats.		6 15 0	"	139 0 0	
	15. ~~Concrete~~ cornice work with brick masonry including plastering and ~~etc~~ complete.	LR	1 0 0	R.ft.	51 0 0	
1. No.	16. Wooden plank shelves 1½" thick 8' long and 1'-3" wide supported with 2" x 3" wooden brackets 3 Nos. including taning and fixing.	LR.	L S		25 0 0	

1.	2.	3	4	5	6
			Rs. A. P.	Rs. A. P.	Rs. A.
470 sq.ft.	17. Painting with grey paint 2 coats.		7 10 0 100 sq.ft.	36 0 0	
L S.	18. Providing 1" thick plank shelve in kitchen.		L S.	5 0 0	
1 No.	19. Forming ~~smit~~ sink in the kitchen.		L S.	6 0 0	
1 No.	20. -do- Fire place.		L S.	10 0 0	
1 No.	21. Forming washing platform.		L S.	20 0 0	
~~1 x No x~~ L S	22. Providing cutstone payable infront verandah		L S.	25 0 0	
~~1 x No.~~ L S	23 Constructing Masonry drain.		L S.	100 0 0	
L S.	24. Cleaning and levelling stone ~~s/c~~		L S.	10 0 0	
				2,359 0 0	
	Supervision Contingencies and petty ~~Expenses~~ charges.			115 0 0	
				2,474 0 0	
	Add 10% being ~~out of the place~~ out of the way place.			247 0 0	
				2,721 0 0	
				OR	
				2,740 0 0	

(Sd.) K.R. Mahadevan
Spl. Supervisor.

L 207 Cons/44

7/20.2.46 5/

3041-D/46

Subject:- Industries - Sericulture - Reorganisation of Grainages. Detailed plans and Estimates for the construction of Sub-grainages at Kamatkary, Kunthur and Hanur - Submitted.

RECEIVED SERICULTURE
21 FEB 1946
DEVELOPMENT DEPARTMENT

Enclosures to this Office No. 207 Cons/44 D/21.1.46 are herewith sent.

Abstract of Estimate — Construction of Lavatory for the Staff of the Sub-grainages at 1) Hanur and 2) Kunthur.

Asst 20.1.46.

To

The Superintendent,
Development Department
Madras.

Abstract of Estimate.

Name of work:-- Construction of Lavatory for the staff of the Sub-grainage at Kunthur.

Quantity.	Description of work.	S.I.No.	Rate.	Per.	Amount.	Total.
100 c.ft.	1. Earth work excavation foundation & etc. in hard soil.	15	10 0	c.ft. 1000	2	
70 c.ft.	2. Concrete broken stone in lime mortar 1st grade stone.	51	0 0	100	36	
230 c.ft.	3. Brick work in lime mortar with Country bricks. ..	66	1 0	"	152	
40 sq.ft.	4. Flooring with Concrete broken stone 1½" in lime mortar and plastered over with cement mortar 1:3 ½" thick. ...	27	6 0	sq.ft. 100	11	
200 sq.ft.	5. Plastered with Cement mortar 1:3 ½" thick. ...	10	6 0	"	21	
		C/O.		.....	222	

P.T.O.

(1)	(2)	(3)	(4)	(5)	(6)
	B/F.				222
300 s.ft.	6. Plastering with Lime mortar 1 coat ½" thick including white washing 2 coats. ...	7	2 0	S.ft. 100	21
L.S.	7. Taking with coal tar 2 coats allround 2 ft. inside & 3ft. outside.			L.S.	15
					258
	Add 10,- being out of the place. ...				26
					284
	Contingencies and Petty Supervision charges.				16
					300

300/-

SAS/31.1

Abstract of Estimate.

Name of work. Construction of Lavatory for the staff of the Veterinary Hospital at Kanoor.

Quantity.	Description of Work.	S.I.No.	Rate.	Per.	Amount.	Total.
150 c.ft.	1. Earth work excavation in foundation etc. in ordinary soil.	16	10 0	c.ft. 1000	2	
70 c.ft.	2. Concrete broken stone in lime mortar 1st grade stone.	58	11 0	100	41	
240 c.ft.	3. Brick work in lime mortar with Country bricks.	69	14 0	"	161	
40 Sq.ft.	4. Flooring with concrete broken stone 1½" in lime mortar and plastered over with cement mortar 1:3 ½" thick.	31	7 0	Sq.ft. 100	13	
200 Sq.ft.	5. Plastering with cement mortar 1:3 ½" thick. ...	11	9 0	"	23	
					240	

C/O

P.T.O

(1)	(2)	(3)	(4)	(5)	(6)	(7)
	B/F.	...			240	
300 Sq.ft.	6. Plastering with lime mortar 1 coat ½" thick including white washing 2 coats. ...	7	2	0	21	
L.S.	7. Taking pile coal tar 2 coats allround 2' inside and 3' outside.			L.S.	15	
					276	
	Add 10% being out of the place				28	
					304	
	Contingencies and Daily Supervision Charges.				16	
	Total Rs.				320	320/-

SA 8/31.1.

ABSTRACT of Estimate

Name of work:--Construction of Lavatory for the staff of Sub-grainage at Kamagarai.

Quantity.	Description of work.	S.I.No.	Rate	Per.	Amount.	Total.
150 c.ft.	1. Earth work excavation foundation & etc. in hard soil.		15 10 0	c.ft. 1000	2	
70c.ft.	2. Concrete broken stone in lime mortar 1st grade stone.		67 10 0	100	47	
230 c.ft.	3. Brick work in lime mortar with Country bricks.		65 10 0	"	151	
40 Sq.ft.	4. Flooring with concrete broken stone 1½" in lime mortar 4" thick and plastered over with cement mortar 1:3 ½" thick.		33 11 0	Sq.ft. 100	13	
200 Sq.ft.	5. Plastering with Cement mortar 1:3 ½" thick.		11 2 0	"	22	
300 Sq-ft.	6. Plastering with lime mortar 1 coat ½" thick including white wasning 2 coats. ..		7 2 0	"	21	
L.S.	7. Tarring with coal tar 2 coats allround 2 ft inside and 3 ft. outside.					15 / 271 P.T.
				L.S.		

64

-2-

Brought Forward.	271	
Add 10% being out of the place.	27	
	298	
Contingencies and petty supervision Charges. ...	12	
Total Rs.	310	310/-

AS/31.1

Estimate Detailed Measurement Sheet.

Name of Work:- Construction of Lavatory for the Staff of the Sub-Grainage at Kamagarai, Kunthur and Hanoor.

Details of Work.	No.	Measurement in feet. Length.	Breadth.	Depth.	Area or Content.	Total
1). Earth work excavation foundation and etc. in hard soil walls allround.	1	32-6	2-0	2-0	130	
Steps. -	1	0-9	2-6	1-0	2	
Total. - ...			...		132 or 150 c ft.	
2). Concrete broken stone in lime mortar 1st grade stone Walls allround..	1	32-6	2-0	1-0	65	
Steps. ..	1	0-9	2-6	0-6	1	
Total ...			...		66 or 70 c.	
3). Brick work in lime mortar with Country bricks Foundation:- Walls around	1	32-6	1-1½	1-0	37	
Steps.	1	1-7½	1-6	0-9	2	
"	1	2-0	0-9	1-0	1	
Basement and Superstructure.						
Walls allround	1	32-6	0-9	7-0	171	
Dwarf wall.	1	8-10½	1-1½	1-0	10	
Total ...			...		221 or 23	

P.T.O.

4). Flooring with Concrete broken stone 1½" in lime mortar and plastered over with cement mortar 1:3 ½" thick. ... Inside ..	1	8-0	4-0		32
Passage	1	2-9	2-0		6
Total. ...		...		...	38 or 40 $.ft.
5). Plastering with cement mortar 1:3 ½" thick					
Inside walls allround..	1	29-0	2H	2-0	58
Dwarf wall	1	9-10½		1-0	10
"	1	6-9		1-0	7
Out side wall ...	1	35-0		3-0	105
Step top	1	2-0	1-6		3
Face ..	1	200		1-0	2
					185
Deduct for:- faces of dwarf wall	2	1-1½		1-0	2
Net Total ...		....		...	183 or 200.
6). Plastering with lime mortar 1 cost ½" thick and white washing 2 coats. Portion of wall inside.					
allround...	1	29-0		4-0	116
Out side.	1	35-0		4-0	140
Top of -do-	1	32-6	0-9		24
Total.		...		...	280 or 300
7). Tarring with coal tar 2 coats allround 2 ft. inside and 8 ft. outside. ..					L.S.

SAS/31.1.

Dev. Dept

Subject: Agriculture – Reorganisation of Grainage – Construction of Sub Grainages at Kamalkarai, Kianthur and Hanna – Revised expenditure proposals – D.D.& C. Orders passed.

Read again: G.O. 1226 MS Dev d 20-3-44
G.O. 3309 MS Dev d 27-8-45

Read also: from the D.D.& C, no. 307 Cons/44 d 27.1.46
Order no. 1692 MS Dev d. 25.4.46

In G.O. no. 1226 MS Dev d 20.3.44, the Govt. authorised an expenditure of Rs 34,500 (Rupees thirty four thousand and five hundred only) on the Construction of three sub Grainages at Kamalkarai, Kianthur and Hanna and staff quarters at each of the sub Grainages. The D.D.& C has reported that owing to the rise in the cost of materials and labour, the work is estimated to cost Rs 1,39,800 instead of Rs 34,500/- and has requested that revised estimates be approved. While generally approving the revised estimates, the Govt. consider that the following details, the revised estimates of the D.D.& C need modification as detailed below:

(i) The cost of quarters for watchmen as sanctioned in G.O. no. 584 MS Dev d 6.2.46 is Rs 2,500/-. The Govt. see no reason why a different scale of expenditure should be adopted for quarters for the watchmen at the Sub Grainages also.

(ii) In G.O. no. 1226 MS Dev d 20.3.44 the expenditure on the quarters for operatives was approved at Rs 2500/- per quarter; in the revised estimates also, the same rate should be adopted for the quarters for 12 operatives at the Sub grainages.

(iii) In G.O. no. 1226 MS Dev d 20.3.44, the expenditure on the quarters for the clerks was estimated at 2/3 of the expenditure on the quarters of the Grainage Assistant. In the revised estimates, the cost of quarters for the clerk is estimated to be the same as that for the Grainage Assistant. The Govt. see no justification for the alteration in quarters for the clerks.

The Govt. accordingly permit the D.D.& C to incur an expenditure not exceeding Rs 1,16,700/- (Rupees one lakh, sixteen thousand and seven hundred only) as per details shown in the

annexures to this order, on the Construction of the main buildings for the sub Grainages, Staff quarters, quarters for watchmen and latrines for offices at the - Kannakarai, Kanthan and Hanna with liberty to the expenditure of Rs 3450 on annual repairs.

2. The D.I.G. is requested to take steps to withdraw the revised expenditure with the sanction to be recovered from the Govt. of India in respect of the Construction of grainages.

21/4/46

Para 4, Govt Lrs No 44 F. dt 22-4-46

To The D.I.G
A.G through Tr
Copy to S.F. Fields
Two Spare Copies

27. cwc

Annexure

Description of buildings	cost Rs
Three main buildings for Sub Grainages at Kannakarai Kunthan and Hanna	Rs 44,496
Three quarters for Grainage Assistants (one at each sub Grainage)	" 20,280
Twelve quarters for operatives (Four at each sub Grainage)	Rs 30,000
Three quarters for clerks (one at each sub Grainage)	Rs 13,500
Three Quarters for watchmen (one at each sub-Grainage)	Rs 7,500
Latrines	930
Total.	Rs 1,16,700

20,280 / 3 = 6,680 per qrs.

21/4/46

22-4-46

Dev Dept

Sub: Industries - Sericulture — Reorganisation of Grainages - Detailed plans and estimate for construction of sub Grainages at Kamakarai, Kunthur and Hanur Submission.

C 13519 D/46 Ref. From the D. I & C. 207 Cons/44 d 21.1.46

To 2.5

With reference to para 2 of Go 3309 MS Dev d 27.8.45, the D. I & C. has submitted revised plans and estimate in respect of the construction of buildings for the three sub grainages at Kamakarai, Kunthur and Hanur and of the staff quarters at these three places. His proposals are at pp 1-2 of in this behalf. The revised estimate are at pp 3-66 of.

In lieu of a sum of Rs 34,500/- originally sanctioned for the construction of the Sub grainages and the staff quarters thereat, a sum of Rs 1,39,800/- is now proposed for sanction. The D. I & C. reports that these estimate are in accordance with the current P.W.D. rate and type design furnished by the P.W.D. for quarters for officers on similar scale of pay.

A similar proposal in respect of the Central Grainage at Kollegal, has been accepted by the Govt. recently in lieu of an expenditure of Rs 20,800/- on construction of buildings for the Central Grainage at Kollegal, an expenditure of Rs 54,300/- to be sanctioned by the Govt. This was further revised by the D. I & C. and the Govt. have sanctioned an expenditure of Rs 69,780/- for the Central Grainage, in Go. No. 584 MS Dev d 6.2.46. [illegible]

In order whether the present proposals of the D. I & C. at pp 1-2 of will be accepted, and the revised plans and estimates involving an expenditure of Rs 1,39,800/- in lieu of Rs 34,500/- may now be approved in the circumstances explained by the D. I & C.

The case may be sent to P.W.D and Finance also for remarks

28/2/46

In the circumstances explained by the D. of I. & C. his revised plans and estimates here may be accepted in this Dept. and the case forwarded to P.W.D. and Fin.

28.2.46

Sd/- [illegible]

P.W. Deptt.

To AS

Please see the Dev. deptt. note on the previous page. This deptt. may agree with their proposal at A overleaf. The file may be passed on to Fin. It may be mentioned in this connection that according to the recommendations of P.H. Sub committee, the living room & bed room should be each 120 Sq ft, & the minimum floor space of the quarters should be 360 Sq ft. It is presumed that these conditions need not be rigidly imposed in the case of the quarters in the present file.

The file may be passed on to Fin through Estt.

5.3.46

9.3.46

11-3

12.3.46

Estt.(E2)

P.W.D. U.O.No. 1380c/46-1 12.3.46

May be perused & passed on to Finance.

14/3/46.

14.3.46

15/3/46

15/3

Estt. 14527-122 16/3/46

4527

ASST. SECRETARY TO GOVERNMENT EDUCATION AND PUBLIC HEALTH DEPT. 18 MAR 1946

ASST. SECRETARY TO GOVERNMENT FINANCE DEPARTMENT 19 MAR 1946

Finance—(Accts.B)

With a view to reorganising grainage work at Kollegal for preparing disease-free layings for distribution to sericulturists, the Govt. have in G.O.No:1226 Devt. d/20.3.44, sanctioned among other things, the construction of buildings for the Central Grainage at Kollegal and for the 3 sub graingges at Kunthur, Kamakanai and Hanur. The original estimates for the construction of the buildings and their subsequent variations are as shown below:

(1)	Original estimate. Rs (2)	I revised estimate Rs (3)	II revised estimate Rs (4)	Remarks. (5)
A. Central Grainage at Kollegal 2 Main buildings, 4 detached buildings and one watchman's quarters.	20.800	54,300	69,789	The estimates have been twice revised and the latest revised estimates have

(1)	Rs (2)	Rs (3)	Rs (4)	(5)
B. Sub-grainages at 3 places				
(i) Three main buildings	18,000	44,490	-	
(ii) Quarters for three grainage assistants.	4,500	20,280	-	
(iii) Quarters for twelve operatives.	6,000	46,070	-	
(iv) Quarters for three clerks	3,000	13,985	-	
(v) Quarters for three watchmen	1,500	8,040	-	
(vi) Lavatories	1,500	930	-	
Total for B. Sub-grainages	34,500	1,39,795		

2. The proposal now is as regards the revised estimates for the three sub-grainages. The total of the revised estimate is more than 4 times the original estimate. The reasons for such a large variation are explained in the Director's letter on pp.1-2 C.F. In the circumstances stated, the revised estimates relating to the main buildings and lavatories may be accepted.

3. As regards staff quarters, the following statement shows the estimated cost of the quarters for each member of the staff:-

	As per original estimate Rs	As per revised estimate (average) Rs.	
Grainage Assistant Pay (Rs.75-100)	1,500	6,760	
Operative (Rs.23)	1,500	3,840	
Clerk (Rs.30-55)	1,000	6,662	
Watchman (Rs12)	500	2,680	

It is submitted that in the case of the watchman employed in the Central Grainage at Kollegal, the latest revised estimate sanctioned in February 1946 provided for quarters costing Rs.2,500. It seems unnecessary to provide for a larger amount for the quarters for the 3 watchmen employed in the 3 sub-grainages. Fin. may suggest that that it would be sufficient to allot a total sum of Rs.7,500 for the quarters for the 3 watchmen instead of Rs 8040 proposed by Mod.I&c.

In the original estimates, it seems to have been intended that the quarters for an operative should be the same as that for watchman. It is not clear why in the revised estimate a costlier house should be built for an operative at Rs.3,840. In the absence of any justifi-

justifi-

justification to the contrary, Fin. may suggest that the quarters for the operatives may be of the same cost as that of watchman.

As regards the clerks' quarters, the original estimate showed the cost at $\frac{2}{3}$ of the estimated cost of the quarters for the Grainages Assistant. In the revised estimate, the cost of the quarters for both seems to be nearly the same. It is submitted that a less costly quarters for the clerk, say at about Rs.4,500, which is roughly $\frac{1}{3}$ of the cost of the quarters for the Grainage Assistant, may be sufficient for the clerk.

Subject to the above remarks the revised estimates for the staff quarters in the 3 sub-grainages may be accepted.

4. The remarks in para.2 of Fin. note on p.28 of G.O.No.584 Devt. d/ 6.2.46 in respect of recovery of a portion of the increased cost from the G. of I. will mutatis mutandis apply to the increases in the estimates to be sanctioned in the present case.

5. As regards the financial procedure, the 'New service' procedure has already been followed when the estimates were originally sanctioned in 1944. The question of obtaining the Governor General's sanction under the section 93 situation is to be considered later - after knowing the extent of contribution to be given by the Govt. of India. Vide para. 5 of Fin. note on p.3 n.f. of G.O.No.3309 Devt.

d/ 27-8-45

22.3.46

It now appears that, even if we get from the G.of I. 50% of the whole of the cost of the central grainages & the 3 sub-grainages, this Govt will have to meet over Rs.1 lakh as its 50% share of the expdr. of Rs.69,780 on the central grainage (sanctioned) and Rs.1,39,759 (revised estimate now to be sanctd) for the 3 sub-grainages. It is not :- in order to proceed without getting the prior sanction of the Govt. Genl under the § 93 situation & Fin. would advise that this prior sanction be obtained before sanctioning the revised estimates for the 3 sub-grainages. Al may see.

22.3.46 Devt.

UNDER SECRETARY
13 MAR 1946
DEVELOPMENT DEPARTMENT

P.T.O

To U.S.

This file deals with the proposal of the Director of Industries and Commerce, ~~submitting~~ relating to the revised estimates for the expenditure on construction of buildings for the working of the three sub-grai nages at Kamakarai, Kunthur and Hanur.

In G. O. No. Ms. ~~1866~~ 1226, Development, dated 20th March 1944 the Government sanctioned an expre. of Rs. ~~73,450/-~~ 73,450/- for the construction of a Central Grainage at Kollegal and three sub-grainag at Kamakarai, Kunthur and Hanur together with quarters for the staff, in connection with the scheme of reorganisation of grainage operations.

In June 1945, the D.I.&C. represented that, owing to rise in ~~cost~~ Cost of materials and labour, the estimates in respect of construction of buildings for the central grainage at Kollegal might be revised from Rs.20,800/- to Rs.54,300/- The Governmen ~~have~~ accordingly sanctioned an expenditure of Rs.54,300/- in lieu of Rs. 20,800/- for the construction of buildings for the Centr grainage at Kollegal. This was further revised in G.O.Ms .584, Development dated 6.2.46 to Rs.69,780/- owing to adoption of improved models suitable for grainage operations.

The Govt. ~~have~~ instructed the D.I.&C. to submit revised estimates in respect of the buildings for the three sub-grainag also. He has accordingly submitted the detailed plans and estimates for the construction of buildings for the working of the three sub-grainages at Kamakarai, Kunthur and Hanur. His proposals are at pp.1-2 C.F. The revised estimates are at pp.3-66 C.F. and the detailed plans are kept below. Against the original estimates of Rs.34,500/- ~~for this purpose~~ on this item of work, the revised estimates ~~are~~ is Rs.1,39,795/- The reasons for such a large variation is explained by the Dir. of Industries & Commerce in his letter at pp.1-2 C.F. The buildings ~~adopted~~ proposed to be constructed are according to type designs and rates approved by the P.W.Dept. This Dept. P.W.D., E&P.H. departments support the proposal of the Director of Industries and Commerce. The Finance Department proposes that a reduction in the staff quarters is possible. Their reasons for this are given in para 3 of their note at pp-3-4, above. Particulars of the original estimates of the D.I.&C., sanctioned already by the Govt

his revised estimates submitted for sanction, and the recommendations of the Finance Dept. in respect of the ~~construction of buildings for the working of the three sub-grainages at Kamakari Kunthur and Hanur~~ revised estimates are tabulated below for ready reference:

Description of buildings. (1)	Original estimates of D.I. &C (sanctioned vide G.O. 1226 MS Rural dt. 20.3.44) Rs (2)	Revised Estimates of D.I.&C. cf. (3) Rs	Recommendation of Finance Dept. (4)
Three main buildings for the subgrainages.	18,000	44,490	44,490
Quarters for the ~~Grainage~~ Grainage Assistants. (three)	4,500	20,280	20,280
Quarters for twelve operatives.	6,000	46,070 (12 x 2,500)	30,000
Quarters for three clerks.	3,000	19,985 (3 x 4,500)	13,500
Quarters for the watchmen	1,500	8,040 (1,500)	7,500
Lavatories.	1,500	930	930
Total	Rs34,500	Rs.1,39,795	Rs. 1,16,700

If the suggestion of Finance is accepted, the total expre. on the grainage scheme will be Rs. 1,86,480 and the share of the Govt. of Madras share will come to about slightly less than a lakh of rupees. ~~The~~ If the revised estimates of the D.I.C. are to be accepted, Dir. Secy has suggested that the share of the private Sugar factories a levy prior sanction of GG under sec. 93 situation is required for the expre. (Steps will be taken to recover the moiety from the Govt. of India separately).

It is now for orders (i) whether the present proposals of the Dir. of Indus. & Commerce for incurring an expre. on Rs.1,39,795 in lieu of Rs. ~~34,500~~ 34,500 originally sanctioned for the construction of buildings for the three sub-grainages at Kamakarai, Kunthur and Hanur will be accepted in toto, or (ii) whether they will be accepted as modified by Finance. If proposal (ii) above is agreed to, the share of the Municipal Govt will obviously be less than one lakh of rupees - ie Rs 93,240 and in that case, the Governor General's prior sanction may not perhaps be necessary. This point will be ascertained from Ind. Dept after orders are obtained in Circular on the points (i) or (ii) above.

27/3/46

Govt may perhaps sanction (ii) above (at 'X'). For As regards 'Y' above, and in view of the very fluctuating estimates submitted by the DIC from time to time it always seems possible that the final cost will again rise from Rs 1,39,000 odd to Rs 1 lakh. However, Fin may advise after circulation (ii) above may be sanctioned.

28.3.46

Rc 28346 S

To A.S.

With reference to 'Y' on p/above, the case may be sent to Finance for remarks.

8/4/46

Fin.

Dev 13519 D/46-2
9.4.46

Finance(Accts.B)Department

Please see the previous min.note on pages 2-4 above and the orders in circulation on pag 6 above.

The case has now been sent to this Dept. with reference to the point at portion Y on p.6 above. The sum of Rs.93,240 shown by Development is half the net cost on account of ~~cons-truction~~ buildings only and does not include the other items of non-recurring cost envisaged in G.O.1226-7 Dev. d/20-3-44. If the other items of non-recurring cost sanctioned in the above G.O. are also taken into account, one half of the total non-recurring cost falling to the share of this Government will exceed Rs.1 lakh. The question is whether Governor General's prior sanction under the section 93 situation should be obtained for the works in view of the fact that their net cost to this Govt. is now estimated to exceed Rs.1 lakhh non-recurring (The original estimate was only Rs.73,450).

In another case of repairs and improvements to the west coast canals, where the revised estimate was Rs.1.60 lakhs against the original estimate of Rs.92,480, it was considered whether, as the revised estimate exceeded Rs.1 lakh non-recurring, the Governor General's sanction should not be obtained for the works. This Department has given the ruling that, as the case does not come under any item in the list at flag (f) in L.F, the sanction of the Governor General under the Sec.93 situation is not necessary. The same ruling would seem to hold good in the present case. The sanction of the Governor General need not therefore be obtained in this case also.

Dev 16/RW 12.4.46

Development will however have to include the necessary additional provision in the list of alterations to the B.E. 1946-7 called for in this department's U.O.Note No.17459 B.O.1 dt 28-3-46.

1-7

Re 28th March 1946

KRV 12.4.46 PDS 12.4.46

12.4.46

Dev. Dept. 2.4.46

Dev. Dept.

Theo' Dept. 12.4.46

Finance 19799 Actg 14.4.46

UNDER SECRETARY
15 APR 1946
DEVELOPMENT DEPARTMENT

D 2D/46 Dev Dept

J. A-S.

With reference to order in Circulation at the bottom of p 6 above, a Draft order is submitted below for approval.

Suitable action ⊗ will be taken after issue, regarding Finance note at 'Z' on pp 7-8 above.

⊗ Action taken on C 22857/D/46

8/4/46 22.4.46 red 6/4/46 S. G. 25/4/46

[Issued as Geo. 1692 MS Dev d 25.4.46] pp 6-7

Clerk